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JOHNSON'S GIANT DOUBLE FLOWERED ZINNIAS

JOHNSON'S SEED ANNUAL 1923



MAR 31 1923

U.S.A.

JOHNSON'S
HOME TABLE
RADISH

"Seeds that Produce"
JOHNSON'S SEED STORE
2158 EAST NINTH STREET
CLEVELAND, OHIO

JOHNSON'S EXTRA EARLY
LAKE CHAMPLAIN
MUSKMELON

1923 | To Our Customers and Friends | 1923

Location, 2158-60 East Ninth St., Just South of Prospect Ave, West side of E. 9th

WE HAVE DOUBLED OUR RETAIL STORE

We again take pleasure in handing you our Seed Annual. You will find it very complete; by far the best we have ever issued. The year 1921 showed a very gratifying increase in our business, and in 1922 we were obliged to add eight more pages to our catalog and double our retail store. Nineteen Twenty-Two was our banner year, and this year (1923) we are obliged to add another eight pages. This proves the success of our unceasing efforts to supply the best of everything, and also to our uniform courtesy in correspondence and to store customers.

Thirty years experience in growing and selling seeds has given us a thorough knowledge of all the requirements and details of the business, and those who entrust their orders to us may feel every confidence that they will have intelligent and careful attention.

We are always glad to advise or suggest varieties of Flower or Garden seeds best suited to your particular conditions. Information at our store or by mail is free, and is given CHEERFULLY.

Cleveland, Ohio, January 1st, 1923.
2158-60 East Ninth St., near Prospect.

Yours for garden success,
JOHNSON'S SEED STORE.

Our local trade is a very important branch of our business and we give it careful attention. We are in position to furnish practically everything needed in Flower, Vegetable or Farm Growing.

Our Clerks are courteous and know their business—being ready at all times to wait on you satisfactorily and to answer inquiries intelligently and cheerfully.

When making your first annual purchase, be sure to leave your mail address, so we can place our next Catalog in your hands promptly.

Gardeners' and Hand-Farmers' Situations. We frequently have on file the names of practical gardeners and farm managers in want of situations. If parties desiring such will write us we shall be glad to put them in communication with men that we deem suitable. To aid us in making a selection we ask full particulars. We make no charge for this service.

Our Mail Order department receives careful attention and we are prepared with every facility for giving the best service.

The Safest Ways to Remit are by Post Office or Express orders, Registered Letter, or Bank Draft. For small amounts Postage Stamps will be accepted.

Parcels Post, Prepaid. Seeds and Bulbs can be sent by Parcels Post, very cheaply and safely. Our catalog price includes pre-payment of Postage by us on Packets, Ounces, Quarter Pounds and Pints to any place in the United States.

Market Gardeners and Florists

Growers of vegetables or flowers for market can save money by sending for our Special Market Gardeners' and Florists' Price List, at once. It will be sent only to those who grow for market, and will not be sent to private gardeners. We cater to the most critical trade. This year we have carried over practically no seeds, so that our supply is fresh.

By Express. Seeds, Bulbs and Plants are now entitled to Special Express Rates, which are considerably lower than rates on General Merchandise. We advise shipping by Express unless goods are too heavy.

By Freight. We deliver all shipments to Railroad Depots, and Boats free of charge—customers paying only actual freight charges.

Information Cheerfully Given. We make a specialty of giving, by letter, any information our customers require in Gardening Matters. Do not hesitate to call on us.

We Cannot Guarantee the Well-Doing of any seeds, plants or bulbs we send out, having no control over conditions—therefore:

Johnson's Seed Store gives no warranty, express or implied, as to description, purity, productiveness or any other matter of any seeds, plants or bulbs they send out and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

SPECIAL REQUEST. Our business has grown to such an extent, we make the suggestion that, if possible, you will use the enclosed Order Sheet in making a list of your requirements, and either mail to us or leave at our store to be filled. This plan will insure the very best attention being given your order, and will save you time and patience when our store is crowded. We will have the necessary number of special clerks to put up your seeds, and they will make every effort to have your order filled and ready for you when you call. If you are not familiar with the best varieties, we shall be glad to make the selection for you if you will state which kinds of Vegetables or Flowers you desire.

1922—Our Banner Year

The volume of business during the year of 1922 was greatly in excess of that of any previous year. From the start our business has never taken a backward step. Our customers of years ago are among the best friends we have today. Once a customer always a customer has been our aim; the constant increase in our business is evidence that our policy of making friends by giving reliable seeds, courteous attention and liberal information has succeeded.

It is our purpose to more than ever increase our efforts to safeguard our customers against crop failures. We have received fewer complaints of crop failures, which is the result of better education, and the reliability of our seeds.

WHY OUR SEEDS ARE RELIABLE. We grow what we can under our own supervision from our own pedigreed seed-stock. What we cannot grow under our own supervision we purchase by contract from professional growers whose reputation must be maintained.

JOHNSON'S TESTED SEEDS. Every lot of seed that comes into our store or warehouse is carefully tested for germination.

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PLANTING TABLE FOR A HOME VEGETABLE GARDEN

Vegetables	Time to first maturity (days)	Distance between plants (inches)	Distance between rows (inches)	Number of seeds to sow per foot	Amount of seeds to buy for 100 ft. row	Depth to plant (inches)
Beans	60 - 80	2 - 5	24-36	10-20	1-2 pts.	1-2
Beets	40 ⁵ -90	2 - 4	12-30	20-40	1 ounce	1/2-1
Cabbage, early	60 ⁵ -110 ⁵	12-18	21-36	5	1 packet	1/4-1/2 ⁶
Cabbage, late	90 ⁵ -130 ⁵	18-24	30-36	5	1 packet	1/4-1/2 ⁶
Carrot	60 - 100	2 - 4	12-30	30-60	1/2 ounce	1/4-1
Cauliflower	70 ⁵ -100 ⁵	15-24	21-36	5	1 packet	1/4-1/2 ⁶
Celery	70 ⁵ -100 ⁵	4 - 6	24-48 ¹	5	1 packet	1/4-1/2 ⁶
Cucumber	65 - 80	12 ³ -36 ⁴	42-60	4 ³ -10 ⁴	1/2 ounce	1/2-1
Egg Plant	90 ⁵ -140 ⁵	24 - 30	24-36	5	1 packet	1/2-1
Lettuce, head	40 ⁵ -90	6 - 15	10-15	5 or 20	1/4 ounce	1/8 ⁶ -1/4 ⁶
Lettuce, leaf	30 ⁵ -70	3 - 8	10-15	5 or 25	1/4 ounce	1/4-1
Melon	90 - 110	48 ³ -72 ⁴	60-84	4 ³ -10 ⁴	1/2 ounce	1/2-1
Onion, green	25 - 40	1 - 2	8-15	8-15	1-2 qts.	1
Onion, mature	100 ⁵ -140	2 - 4	15-30	20-40	1/2 ounce	1/4-1
Parsnip	120-150	3 - 4	18-36	20-40	1 ounce	1/2-1
Peas	50 - 70	1/2 - 1	24-36	18-30	1-2 pts.	1/2-1
Pepper	90 ⁵ -120 ⁵	18 - 30	24-36	5	1 packet	1/2-1
Potato	80 - 140	14-18	30-36	1 piece	1 peck	3-4
Radish	25 - 40	1 - 2	6-15	30-60	1 ounce	1/2-1
Salsify	120 - 150	2 - 3	18-36	20-40	1 ounce	1/2-1
Spinach	30 - 60	2 - 4	12-30	20-40	1 ounce	1/2-1
Squash, early	65 - 80	30 - 48	42-60	4 ³ -10 ⁴	1/2 ounce	1/2-1
Squash, late	70 - 100	18 ³ -72 ⁴	60-84	4 ³ -10 ⁴	1/2-1 ounce	1/2-1
Sweet Corn	70 - 100	18 ³ -36 ⁴	30-42	4 - 8 ⁴	1/4-1/2 pint	1-2
Tomato	60 ³ -90 ⁵	18 ² -48	30-48	5	1 packet	1/2-1
Turnip	50 - 90	2 - 4	12-30	30-60	1/2 ounce	1/2-1

¹For earth blanching. ²For single stem training. ³For single plants. ⁴Hills of 3 or 4 plants. ⁵For transplants. ⁶In seedbed. This table is published with acknowledgments to Cornell Extension Bulletin No. 14.

Do You Want This Catalog?

Be sure to send us an order for seeds if you want this catalog next year. If you do not send us an order your name is taken from our mailing list, believing you have changed your address, or you may have come to the store, where you can get a catalog at the counter. We prefer to have you on our list as an annual customer; then you will always get our catalog as soon as it comes from the press.

WHEN YOU CHANGE YOUR ADDRESS, NOTIFY US IF YOU WANT THIS CATALOG.

Fall Bulbs, Etc.

We shall in season have a large and select line of all bulbs adapted for Fall planting. We import these direct from Holland, France, etc., in immense quantities.

Freesias. Mammoth size. June and July.

Lilium Harrisii. July and August.

Roman Hyacinths. August and September.

Lilium Candidum, Paper White Narcissus, Dutch Hyacinths, Tulips and Narcissus. September and October.

Hardy Lilies, Chinese Narcissus. October and November.

Ask for Fall Catalog, ready about September 1st.

Domestic Parcel Post Rates from Cleveland, Ohio, to any Other Postoffice in the United States.		For First Pound Allow	For each Addi- tion- al Lb. Add
1st zone within	50	miles	\$0.05
2nd "	50 to 150	"	.05
3rd "	150 to 300	"	.06
4th "	300 to 600	"	.07
5th "	600 to 1000	"	.08
6th "	1000 to 1400	"	.09
7th "	1400 to 1800	"	.10
8th "	over	1800	.12

Weight limit within the first, second and third zones is 70 pounds; within the other zones the weight limit is 50 pounds. In all zones, the size limit is 84 inches for combined length and girth.

Johnson's High Grade Lawn Seed

THE BEST SEEDS MAKE THE BEST LAWNS



Smooth, Firm, Evergreen Lawns From Johnson's Lawn Grass Mixtures.

ABOUT LAWNS AND LAWN GRASS SEED

Formation of Lawns from Seed

All grass and clover seed prices are subject to change without notice.

There is nothing more attractive than a well-kept lawn.

The ground should be thoroughly drained and well prepared. The soil ought not to be too rich, as a rapid growth is not wanted in the grasses of a lawn; but the surface should be as much alike in quality as possible and thoroughly pulverized. After sowing, the ground should be rolled if possible, in order to press the seed firmly into the soil, and ten days or so thereafter a light application of Johnson's Lawn Fertilizers will serve to stimulate the growth of the young grasses. The proper time to sow grass seed depends, of course, upon the latitude. In the central and eastern states from March 15th to the middle of May is the best time; but in favorable seasons the sowing may be done up to July 1st. Seed may also be sown in the fall, from the latter part of August to the end of October or later, depending upon the weather. The sowing should be done when the ground is moist, or before an expected rain, and a subsequent rolling is always advisable. As to weeds in newly-made lawns, it may not be generally known that many weed seeds actually lie dormant in the ground for six or seven years and will germinate and make their appearance when the soil is turned up. The annual wild grasses, such as crab grass or summer grass, must be pulled up by the roots before they ripen their seed in the fall.

Johnson's "Reliable"

An Ideal Lawn Seed Mixture—Cleanest; Best; Cheapest.

The formula for this mixture was originated by our Mr. G. Johnson almost thirty years ago, and has been successfully used for years in laying out many of the lawns and terraces which today we greatly admire in and around Cleveland. From time to time we learn something new about the blending of different kinds of lawn seeds, applying this experience to the preparation of our mixtures, until we now believe we have the best balanced formula, superior to many, and second to none.

THE BEST FOR GENERAL PURPOSES

Our Reliable Lawn Grass Seed is the cleanest, heaviest, cheapest and best, because it is made up of Extra Recleaned Seeds of the finest varieties of grasses, each of which has its season of beauty and the result is the production of a sod that is always evergreen and velvety. Many of the finest lawns of our city are seeded with Johnson's Reliable Lawn Grass, the preparation of which is a specialty with us. Less seed of Johnson's Reliable is required than of any other brand. Hence it is economical in the end. 1 lb. will sow 400 square feet. Lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.00; 20 lbs. (1 bu.), \$9.00.

QUANTITY REQUIRED FOR NEW LAWNS.

ft.; 10 lbs., ($\frac{1}{2}$ bu.) 4600 sq. ft.; 20 lbs., (1 bu.) 10,000 sq. ft. A large quantity of Lawn Seed will cover a slightly larger area in proportion than a small quantity, owing to the fact that it is easier to spread evenly.

Johnson's "Economy" Lawn Seed

This special mixture produces beautiful and permanent lawns. It is made from our own formula, and composed of grasses which are adapted for the purpose of producing a lawn which retains its rich green color and velvety appearance throughout the summer and fall. It is well suited for various soil conditions, giving good results even in small city grass plots, where the soil is generally stiff and heavy Lb., 40c; 5 lbs., \$1.75; 10 lbs., \$3.00; 20 lbs. (1 bu.), \$5.00.

Johnson's "Shady Spot"

This is a very high grade mixture of grasses which naturally grow in shady spots. Before sowing in such places, it is well to rake off the surface thoroughly and then apply air-slaked lime at the rate of one bushel to every 1,000 square feet. Use one pound of seed for every 300 square feet. Lb., 50c; 5 lbs., \$2.25; 10 lbs., \$4.00; 20 lbs. (1 bu.), \$7.00.

Johnson's "Quick Growth"

A special mixture of seeds which is especially useful where for some reason or other the seed cannot be sown in early spring. Our Quick Growth mixture will cover the ground like magic, but later on produce a permanent and beautiful sod. Lb., 45c; 5 lbs., \$2.00.

1 lb. (about 3 pts.) for 400 sq. ft.; 5 lbs., (1 pk.) 2200 sq.

A large quantity of Lawn Seed will cover a slightly larger



Permanent Grass Seed for Golf Links, Tennis Courts, Polo Grounds, Etc.

We have devoted much attention to the seeding and preservation of golf-links, tennis-courts and polo-grounds, and offer the following mixtures, which have been used on many of the finest links, etc., in this country, with very satisfactory results. Bags at cost and transportation extra. Prices subject to market fluctuation during the season.

Polo-Grounds Mixture

A mixture of fine-leaved and deep-rooting grasses, forming a strong and lasting turf that will stand hard usage. No better mixture can be procured for this purpose. 25 lbs., \$11.00; 100 lbs., \$40.00.

Tennis-Court Mixture

A mixture of extra fine grasses peculiarly adapted to Tennis Courts. This mixture will make a firm, green and lasting turf of the finest texture, that will improve with the trampling it receives. Has proved very lasting wherever used. 5 lbs., \$3.25; 10 lbs., \$6.00; 25 lbs., \$14.00; 100 lbs., \$55.00.



Results of Sowing Johnson's Shady Spot Mixture.

Golf-Links Fair-Green Mixture

For the grounds in general. Made up from varieties of grasses perfectly adapted to rough usage. Will produce a beautiful, thick, tough lawn in a short time, and will maintain its appearance better than others, in spite of wear and dry weather. For Golf Links this mixture is equal if not superior to many golf link grasses now in use. 25 lbs., \$12.50; 100 lbs., \$45.00.

Putting-Green Mixture

Our own special formula as furnished all the leading Golf Clubs in America. A mixture of highest grade grasses, that will make a close, firm, green and lasting turf, which will improve with trampling. 5 lbs., \$4.00; 10 lbs., \$7.50; 25 lbs., \$18.00; 100 lbs., \$70.00.

Grass Seed Mixtures for Terraces

A mixture of strong, deep-rooted grasses for banks or terraces. Although the grasses are strong and deep-rooted, they will produce a fine green velvety surface, and also prevent washing away during heavy rains. Lb., 90c; 5 lbs., \$4.00; 10 lbs., \$7.50.

KENTUCKY BLUE GRASS. We handle only the fancy seed. Lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.00.

WHITE DUTCH CLOVER. For lawns. Should be sown in the spring or early fall. Lb., 90c; 5 lbs., \$4.00; 10 lbs., \$7.50.

The Best Lawn Fertilizers

Keep the lawn fresh and green by using liberally during the summer, as a top dressing, Johnson's Superior Brand Sheep Manure. No weeds; no odor. Per 100-lb. bag, \$3.50, delivered.

If you prefer applying fertilizer in the fall, we recommend Johnson's Superior Bone Meal. Per 100 lb. bag, \$4.00, delivered in the city.

NOTE.—Do not fill your lawn with weeds by using Stable Manure.

Johnson's Superior Brand Sheep Manure

For garden, lawn or greenhouse use nothing surpasses Sheep Manure; it is clean and easily handled, besides giving immediate results. Use 1,000 lbs. per acre, 2 lbs., 15c; 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.10; 50 lbs., \$2.00; 100 lbs., \$3.50; 500 lbs., \$15.00.

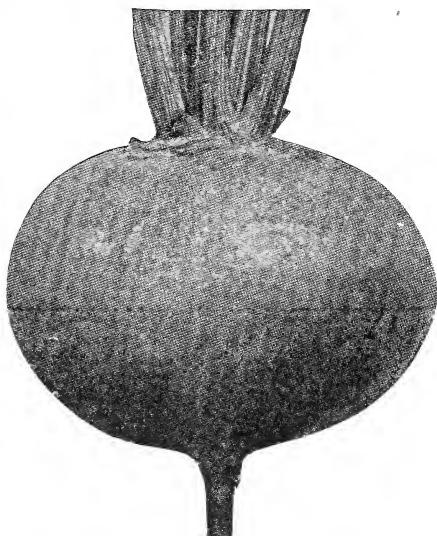
Johnson's Seeds that Produce

Of Strong
Vitality and
Choice
Selected
Strains

IN THIS CATALOG we quote all of the standard and most productive varieties of Vegetable and Flower seeds for Home and Market Gardening, as well as most of the "worth while" newer sorts.
Prices Include Postage on packets, ounces and quarter pounds.
It is Our Aim to handle only reliable stocks such as are true to name and have been tested for germination. We cater to Gardeners who are willing to pay a fair price for stocks of unequalled quality.
Order Early. It is to your interest as well as ours.

Our Prices are
as Low as
Possible, Con-
sistent with
High Quality

Novelties and Specialties for 1923



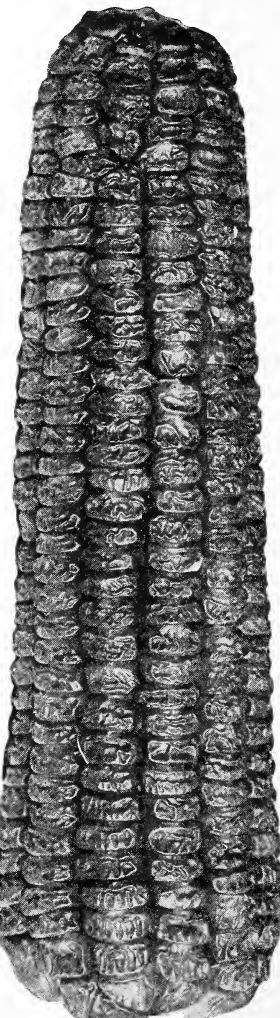
Johnson's New Dark Leaved Globe Beet.

Johnson's New Dark Leaved Globe Beet

A splendid type of the blood-turnip variety, combining fancy table quality with beautiful globe shape. The dark foliage of this variety is a striking feature, while the corresponding rich, dark color of flesh and beautiful globe shape combine to make it an exceedingly attractive Beet. The quality is sweeter and finer than any other beet we know of. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c.

GROW MORE THIS SEASON.

Are you utilizing all that ground of yours? Make it produce MORE. Plant Johnson's "Seeds that Produce," and get results that will well repay you for your time.



Johnson's Golden Standard Sweet Corn.



Carpinteria Pole Lima Bean.

Carpinteria Pole Lima Bean

A most desirable pole lima for the home and market garden. The vines are strong growing and vigorous, producing an abundance of fine, large, medium green pods, five to six inches long, usually closely filled with four beans of largest size, much thicker than the average pole lima. The color is distinctive in having a decidedly greenish tint, an indication of very finest quality. When cooked, the beans are very thin skinned, extremely tender and of finest flavor. Seed very large, exceptionally thick, retaining the distinctly green tinge. Pkg., 15c; $\frac{1}{2}$ pt., 25c; pt., 40c; qt., 70c.

Johnson's New Golden Standard Sweet Corn

This splendid new Sweet Corn is almost identical with De Lue's Golden Giant, but we believe it is slightly larger and fully equal in quality. It is a cross between Golden Bantam and a large white sort, thus combining the rich, buttery flavor of Bantam with the size and tenderness of the longer white parents. Planted in spring at same time as Bantam, the new Golden Standard will just follow the former in being ready for table use. For later successions we recommend using the New Golden Standard altogether on account of its larger size. Pkg., 15c; $\frac{1}{2}$ pt., 30c; pt., 50c; qt., 90c; $\frac{1}{2}$ pk., \$3.00.

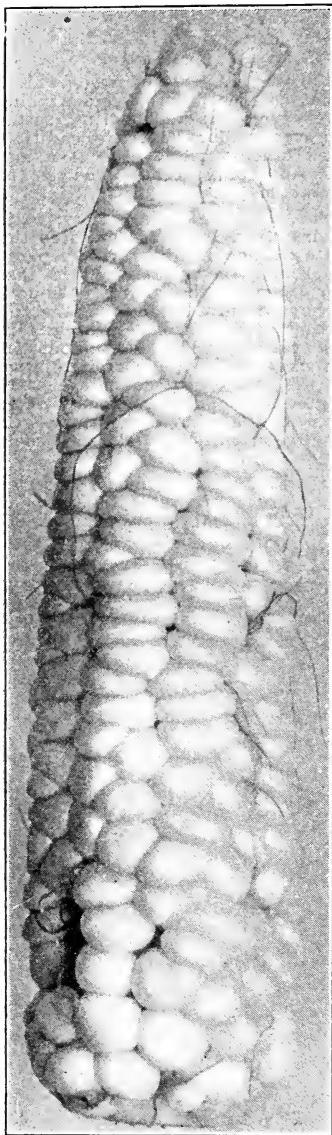
Chinese Celery Cabbage

Our Wong Bok Celery Cabbage is fairly leaping into popular favor. This Wong Bok type of Chinese or Celery Cabbage is by far the best of its class—being shorter, heavier, and blanching up more easily and completely. The leaves of this sort are more curly than others, which proves its tenderness and rich but mild cabbage flavor. Cultivation same as for Cabbage. It is tender as head lettuce and delicious for salads, cold slaw, etc., and when cooked quickly is far ahead of ordinary cabbage. Pkt., 15c; $\frac{1}{2}$ oz., 25c; oz., 40c.

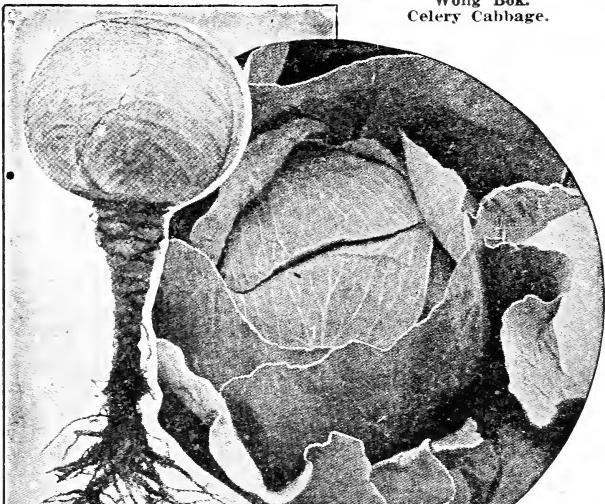


Johnson's Verifirst Sweet Corn

This new corn, now first offered, is so early that in a comparative test beside ten of the earliest sorts on the market, we found none to come within five days of being ready so soon for table use. It is a real acquisition for those who wish the earliest maturing sort either for home use or the market. Nothing that we know of can approach it for earliness, hardiness and delicious flavor. Of practically same size as Mammoth White Cory. (See cut below.) Pkt., 15c; $\frac{1}{2}$ pt., 30c; pt., 50c; qt., 80c.



NEW BOOK—AMATEUR GARDEN GUIDE.
GARDEN GUIDE covers every step from the spading up of the garden to the winter preservation of the crop. In less than five years this book has been reprinted four times, considerably added to each time, until now, in its fourth edition, with its many new chapters, we consider it unapproachable from any point of view. 275 illustrations. Price, \$1.25.



Wong Bok.
Celery Cabbage.

New Extra Early Cabbage

JOHNSON'S QUICKEST.

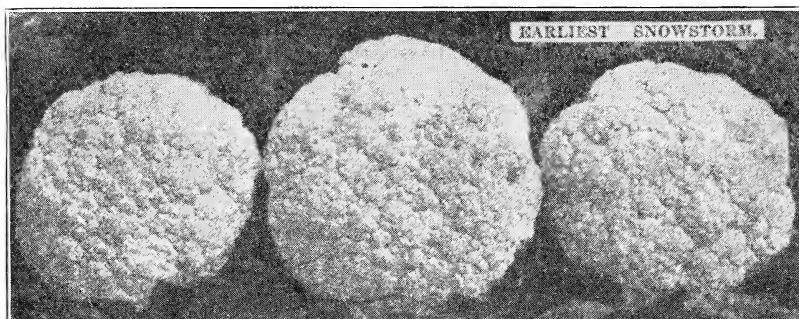
We believe Johnson's Quickest is without exception the very earliest Cabbage in existence. When we state that it is ready for cutting from a week to ten days ahead of the best stocks of Copenhagen Market, it is easily seen that it is a remarkably quick growing sort. The heads are round and very hard. Quality is unsurpassed, even by late sorts. Around Cleveland it can be had ready for the table early in June. Last year we sent out a number of packets for trial, and the reports are uniformly favorable from all sections of the country. It is a most beautiful Cabbage in appearance, being handsome in color and uniformity. We stake our reputation on this new Cabbage, and very earnestly request all to try it. For forcing it is especially suited, as it grows low and produces few side leaves. Pkt., 15c; $\frac{1}{4}$ oz., 30c; $\frac{1}{2}$ oz., 50c; oz., 90c.

One of our customers reports: "My gardener wanted me to send you this sample head of No. 9 Cabbage. I think it is a wonderful variety. We had the first one about the 13th of June, and have been using them ever since. They certainly are a fine cabbage."

New Table Carrot, Coreless Nantes

A very fine variety for table use. The carrots are very tender, of mild pleasant flavor, and without any hard core as in some varieties. The shape is ideal for a table carrot, being practically the same size from crown to bottom. The roots grow to a medium size, are very smooth, and of a deep orange-red color all through. The carrots grow rapidly and are excellent for use, when either young or full grown. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

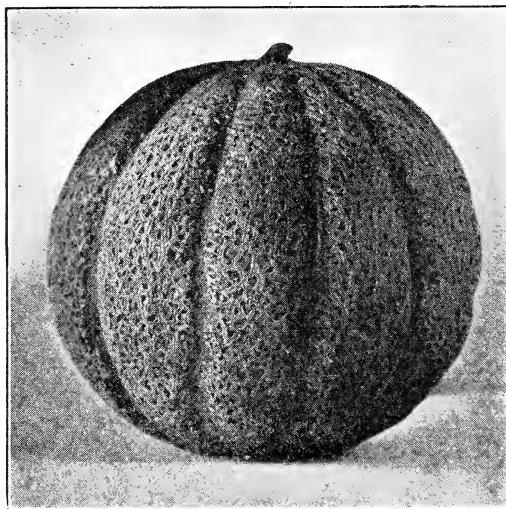
Johnson's Earliest Snowstorm Cauliflower



EARLIEST SNOWSTORM.

The very best and earliest strain of Cauliflower on the market for forcing. It is a dwarf variety, with short outer leaves, and can be planted close, 2 feet apart each way. It always makes a fine, large and exceedingly beautiful snowy white head, much earlier than any other variety. Pkt., 50c; $\frac{1}{4}$ oz., \$1.50; oz., \$5.00; $\frac{1}{4}$ lb., \$15.00.

Extra Early Lake Champlain Muskmelon



Lake Champlain Muskmelon.

This Wonderful New Muskmelon Produces Most Delicious Fruit 57 Days from Planting.

Lake Champlain is a medium sized melon, nicely netted, flesh deep, sweet and melting, of golden yellow color. The plant is very vigorous and healthy, setting and ripening melons even under adverse conditions, which totally destroyed other varieties. It is a marvel of productiveness. Another year has added to the popularity of this great melon.

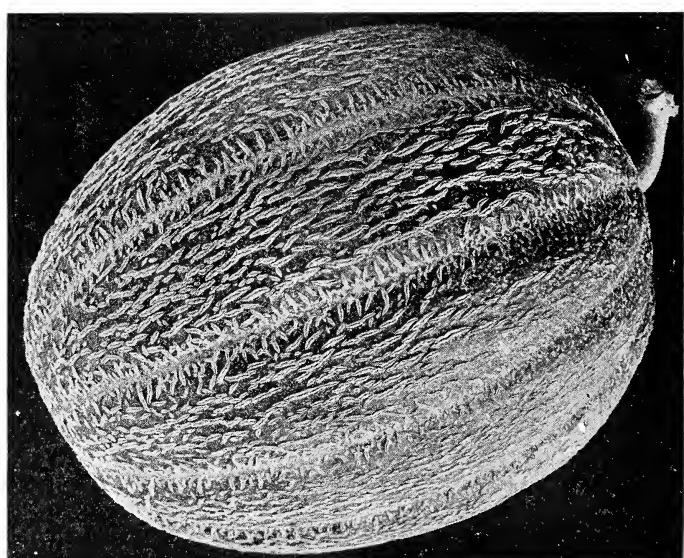
Mr. H. J. Walrath, who originated this variety, writes as follows: "It blossoms when the vines are less than 12 inches long, and sets its fine healthy first crop of 8 to 10 melons right around the roots. While these extra early fruits are ripening, the vines continue to grow in length, and they in turn produce another and sometimes a third setting of fine fruits—making it not only the very earliest variety, but a continuous producer. We had much under an average crop this season; it was an off year. No other melon except the Lake Champlain amounted to enough to interest a melon grower. Most of them had a complete failure. Our melons were high quality as usual, and drew melon fanciers from all cities within 70 miles."

Being a marvel of earliness, productiveness and quality, it will at once prove profitable to either the home or market grower. Pkt., 20c; $\frac{1}{2}$ oz., 50c; oz., 85c; lb., \$7.50.

New Bender's Surprise Muskmelon

A new sort which is bound to prove very satisfactory for home gardeners, because of its unusually attractive appearance, its great productiveness and its unusual keeping qualities. It ripens later than our famous Lake Champlain. When ready for market the outside color is creamy yellow, with light green netting. Shape just oval enough to make it attractive. Flesh deep orange, and quality is so fine that the consumer is always delighted. No progressive home gardener should fail to include this melon. Pkt., 15c; oz., 40c; $\frac{1}{4}$ lb., \$1.10.

Helpful Advice Without Charge. Johnson's service does not end when the seeds are sold. Not only have we made this book a helpful guide to planting and cultivation, but should our customers require any special help on seeds, plants and bulbs, our staff of capable, practical experts is available. No charge is made. You are heartily invited to take advantage of this service, and we guarantee prompt and courteous attention.



Bender's Surprise Muskmelon.

Johnson's Bouquet Parsley

This New Parsley is so beautifully curled and crested that we have felt justified in calling it "Bouquet." Without doubt it is the most ornamental variety grown—and hence for garnishing has no equal. It is of dwarf, compact habit of growth, and its color is a most pleasing shade of green. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 45c.



Johnson's Bouquet Parsley.

Johnson's New Prizewinner Peas

Johnson's New Prizewinner Pea produces its pods, which are of a rich dark green color, in 68 days from planting. Pods often measure 6 inches in length, and contain from 9 to 11 peas of enormous size, and of most tender and delicious quality. The growth is strong and healthy—about 20 inches high. It is astonishingly productive, and no variety we know of will produce more pods or shell out in greater abundance. The color of foliage and pod is so unusually dark and healthy that it is always noticeable. No lover of peas should fail to grow some of these. Pkt., 15c; $\frac{1}{2}$ pt., 25c; pt., 40c; qt., 75c.

Johnson's Home Table Radish

A fine, bright red Radish, growing quickly to large size, following right after Saxa in maturing. It is especially fine, being ready to use in about four weeks from the time the seed is planted in the open ground early in the spring. This Radish is a deep globe in form; two inches in depth, one and one-half inches in diameter, with thin, tender skin of a deep crimson. The flesh is purest white, crisp and of mild flavor. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 65c.

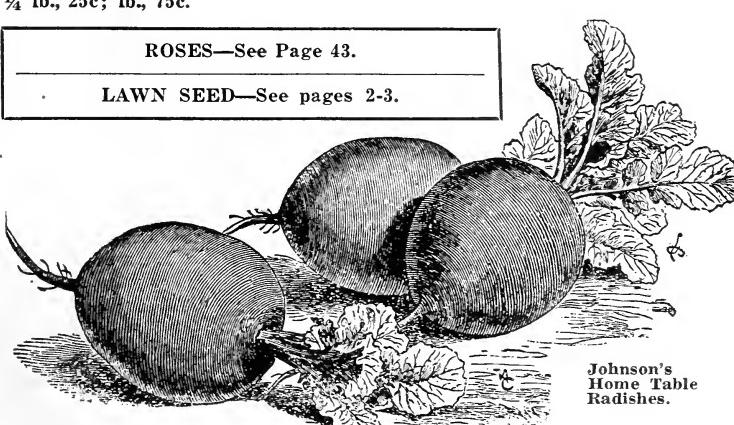
New King of Denmark Spinach

Stands two weeks longer than any other sort.

This remarkable new Spinach is far superior to any of the other sorts. Its principal advantage is that it stands two weeks longer before running to seed than any other variety. The leaves are large, rounded, Savoy or crumpled, of deep green color. Ready to cut in 48 days. Pkt. 10c; oz., 15c; $\frac{1}{4}$ lb., 25c; lb., 75c.

ROSES—See Page 43.

LAWN SEED—See pages 2-3.



Johnson's Home Table Radishes.



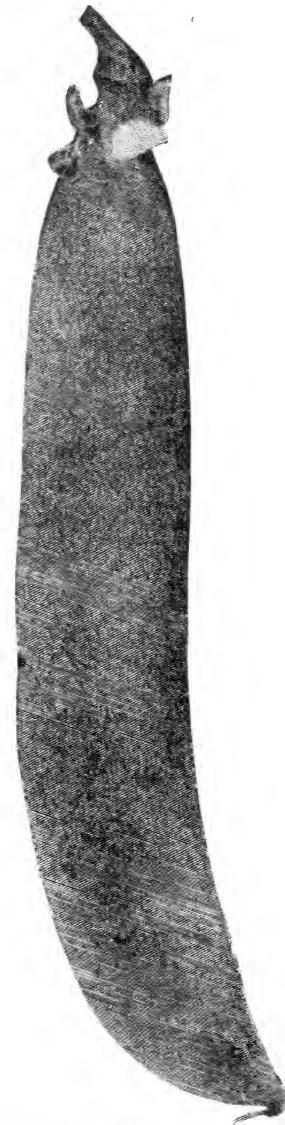
Saxa Radish.

Johnson's New Saxa Radish

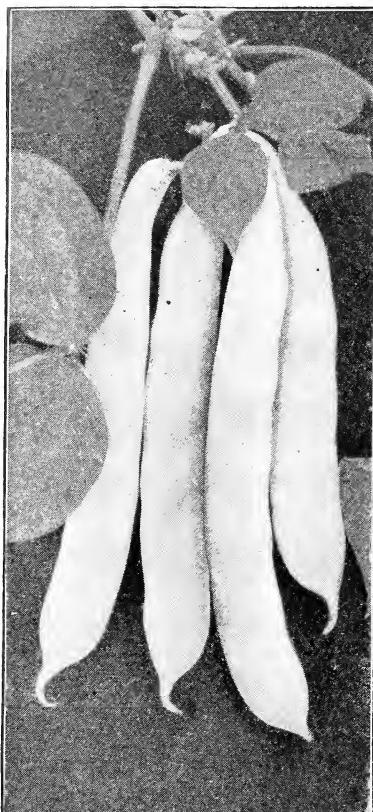
THE QUICKEST GROWING, ROUND RED SORT.

This desirable, quick growing, red button Radish produces its crop in 16 to 20 days. Round as a marble, having a very small top and tap root. The skin is a bright scarlet color, with firm white flesh, which is crisp, brittle and juicy. Adapted for forcing or out-door planting. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 60c.

SEE OUR
ROSE LIST
PAGE 43



New Prize Winner Peas.



Improved Golden Wax.

GENERAL LIST

Johnson's High Grade Vegetable Seed For Home and Market Gardens

Asparagus Seed

One of the finest and most delicious vegetables in Spring. No garden is complete without an Asparagus bed. Can be grown in any good garden soil and prefers sunny, moist location.

Argenteuil. Very popular in France, and extensively grown for the Paris market. The stalks grow to a mammoth size, sometimes weighing as much as 4 ounces each. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

Colossal. The well-known standard sort. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c.

Palmetto. Earlier and larger than Colossal. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.



Palmetto Asparagus.

Asparagus Roots

We offer strong roots of following varieties: Argenteuil, Palmetto, and Conover's Colossal.

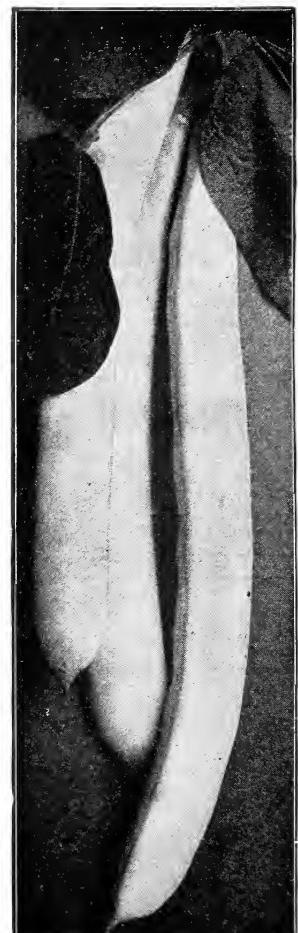
Any of the above Asparagus, 30c per doz.; \$1.60 per 100; \$6.50 per 500; \$12.00 per 1,000.

Cultural Notes on Asparagus free on application.

Artichoke

Jerusalem. (Tubers.) Qt., 25c; pk., \$1.00; bu., \$3.50.

Large Globe. (Seed.) The flower heads are cooked like Asparagus. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.



Beans—(Bush) Wax or Yellow Podded Varieties

Culture. Bush Beans may be had throughout the season, by planting at intervals of two weeks, from the beginning of May until the middle of August; they should be planted in drills two feet apart, one seed every six inches covered one inch deep.

Wardwell's Kidney Wax. A very popular variety of Wax Bean, bearing long, flat pods of a delicate waxy yellow, stringless and brittle, producing a heavy crop. The pods mature a little later than Golden Wax, but are produced in great abundance. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

Davis Kidney Wax. The handsomest of all the early Wax Beans. The pods are long (seven inches), straight, very uniform and clear waxy white. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

Improved Golden Wax. Counted by many to be superior to all others. This bean, introduced in 1876 still continues the standard variety for home use. The pods are long, nearly straight, broad, half-round, golden yellow, very fleshy and wax-like. They cook quickly as snap beans, and are of the highest quality. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

Pencil Pod Black Wax. (Cylinder Pod.) Dwarf bush growth and very prolific, one of the earliest. Pods four to five inches in length, quite round; meaty, brittle, and stringless; deep golden yellow; of excellent flavor. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

Currie's Rust-Proof Wax. An improvement on the old-fashioned Golden Wax, and ready about mid-season. Pods grow long, flat, very tender and of finest quality. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

New Kidney Wax. Robust in growth and very prolific with long pods, entirely stringless, fleshy, and of fine quality. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

Hodson Wax. A new and distinct Wax Bean of unusually healthy growth, which enables it to resist disease. The variety is remarkably prolific, with straight, oval pods, which are longer than almost any other garden sort. In season it follows Wardwell's Kidney Wax and other standard sorts, thus giving a succession. On this account and because of its remarkable productiveness and beauty it is becoming very popular. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

Sure-Crop Stringless Wax. A valuable variety of Dwarf Wax Bean, which while not related to the well-known Currie's Rust-proof Wax, bears a great resemblance to it in plant and seed. It is very productive, bearing large, handsome golden yellow pods in great abundance. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

Saddle-Back Wax. This variety is of beautiful shape and rich golden yellow color. The pods are long, round, very solid and absolutely stringless. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

Wardwell's Kidney Wax.

**Bountiful Bush Bean.**retain their color. Pkg., 15c; $\frac{1}{2}$ pt., 25c; pt., 40c; qt., 70c.**Siebert's Early Lima.** The earliest of the Pole Limas. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c.**Early Leviathan Lima.** Extra early and very popular. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c.**King of the Garden Lima.** A popular sort for main crop. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c.**Large White Lima.** The old standby. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c.

Bush Limas

Bush Limas may be planted in rows 3 feet apart and 6 inches distant in the row, when soil is nice and warm.

Fordhook Bush Lima. Both pods and Beans much larger than those of any other Potato Lima. Habit of plant a strong, erect, bush-like growth. Pods borne in clusters of from four to eight averaging four Beans to the pod. Exceedingly productive and of best quality. The best bush type of the popular Potato Lima. Pkg., 10c; $\frac{1}{2}$ pt., 25c; pt., 40c; qt., 70c.

Henderson's Bush Lima. This is a small white Lima Bean which grows in bush form and produces a large crop. The plants are very hardy, make rapid growth and are not so apt to throw runners as some of the other varieties of Bush Lima. It begins to set pods at an early season. Most exquisite table quality. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c.

Burpee Improved Bush Lima. This is superior to any of the older forms of Bush Lima. Plant very vigorous and upright, attaining a height of 30 inches and 24 inches across. Pods often borne in clusters of five to eight and of enormous size. Beans are larger than those of any other variety; immensely productive and of the very best quality. Matures earlier than others. Pkg., 10c; $\frac{1}{2}$ pt., 25c; pt., 40c; qt., 70c.

Beans—Green Podded Bush Varieties

Earliest Red Valentine. This variety is usually ready to pick in 35 days from time of planting. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 45c. **Black Seeded Valentine.** This variety is valuable because it withstands considerable cold damp weather and hence may be planted very early. The pods are round, very fleshy and entirely stringless. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 45c.

Bountiful. This one is the best of the flat-podded stringless varieties. The light green pods are 6 $\frac{1}{2}$ to 7 inches long, flat, slightly curved, absolutely stringless, attractive and of very fine quality. At the same time it is very early, vigorous, hardy and a heavy yielder. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 45c.

Giant Stringless Green Pod. This Bean is absolutely stringless. Fine large round fleshy tender pod. As early as Six Weeks, with the advantage of being a better cropper. The plants are of strong growth, very productive, pods 5 inches long, light green, slightly curved, very meaty, being broadly rounded, saddle backed and absolutely stringless. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 45c.

Refugee, or Thousand to One. Very tender and productive. Splendid for late planting. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 45c.

Burpee's Stringless Green Pod. This Bean is very early, productive, hardy and vigorous; the pods average about 5 inches long, straight, stout, round, crease-backed, and of a dark green color. They are tender, brittle, of the finest flavor and quality, and strictly stringless. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 45c.

Improved English Broad Windsor. Large and productive, bushy habit; well podded from top to bottom of stem. Pkg., 10c; $\frac{1}{2}$ pt., 30c; pt., 50c; qt., 85c.

Baking Varieties

Red Kidney. This variety is extensively used by many people for baking. We have a prolific type that is very desirable. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c; pk., \$3.00.

White Kidney. Excellent shell Bean. Pkg., 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c; pk., \$2.50.

Improved Boston Pea or Navy. Choicest Northern grown seed. Pkg., 10c; $\frac{1}{2}$ pt., 15c; pt., 20c; qt., 35c; pk., \$2.00.

White Marrow. Fine early shell beans. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

Pole or Running Beans

Culture. A warm, sandy loam, enriched with well rotted stable or poultry manure is best. Must not be sown until the ground is warm and dry. When poles are used for support they should be set not less than 4 feet apart each way. Plant 4 to 6 beans to a pole, eyes down 2 inches deep. When well started thin out to 2 plants to a hill. Cultivate freely, but shallow. Use 1 quart to 100 hills, 20 quarts to the acre.

Golden Cluster. One of the earliest wax Pole Beans. Vines large, strong, vigorous; pods 6 to 8 inches long in clusters, thick and fleshy; bright golden yellow. Dry Beans white and nearly round. Pkg., 10c; $\frac{1}{2}$ pt., 25c; pt., 40c; qt., 75c.

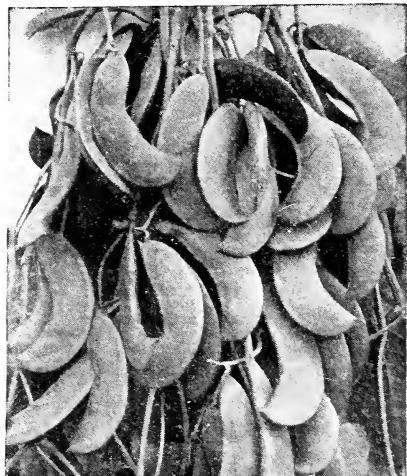
Kentucky Wonder or Old Homestead. Excellent flavor and enormously productive; entirely stringless and of a silvery green color. About ten days earlier than any other green-pod sort. Beans are rather small, oblong and of a yellowish brown color. Pods are green. Pkg., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c.

Kentucky Wonder Wax. A yellow-podded "Kentucky Wonder," which bears a large quantity of rich golden yellow pods. The plant is exceedingly productive. Pods are thick, meaty, stringless, tender and of fine flavor. Pkg., 10c; $\frac{1}{2}$ pt., 25c; pt., 40c; qt., 75c.

**Fordhook Bush Lima Bean.**

Pole Lima Beans

Carpinteria Pole Lima. The most perfect pole Lima Bean in existence. The Beans have a greenish tint, an indication of good quality. The vines are vigorous and make strong growth, producing a large quantity of Beans in a fairly large pod, which are thicker than the ordinary Lima and

**Henderson's Bush Lima Beans.**

Garden Beets

For early supply sow as soon as the ground is in working order, in drills sixteen inches apart and one inch deep. When the plants are well forward, thin out to about four inches apart. For succession sow until August 15th.

Johnson's New Dark Leaved Globe. This new Beet is recommended for table quality. (See Specialties, page 4.)

Crosby's Improved Egyptian. A very superior Extra Early strain of Garden Beet which has been carefully selected for years. This beet excels in handsome form, good size, small tops, very small tap root, fine quality, and above all quick, rapid growth. We highly recommend it. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

Johnson's New Wonder. This Beet is the result of many years of expert selection with a special strain of Crosby's as a basis. In this new beet we have perfect form, small tops and tap root, beautiful color, and extra early maturity. For forcing and bunching it is unequaled by anything on the market while the rich color, tenderness and flavor of the flesh make it extremely desirable on the table. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

Detroit Dark Red. One of the very best sorts for the home or market garden, and for canning purposes. Roots uniformly smooth, of medium size, and globe-shaped; skin dark red, flesh solid vermillion red; tops small, upright, dark green shaded red. Our special stock of this variety shows no white zones in the flesh.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

Extra Select Eclipse. Flesh deep blood red, firm and sweet. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

Improved Early Blood Turnip. Good form, dark red, well flavored; a favorite for Summer and Winter use. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

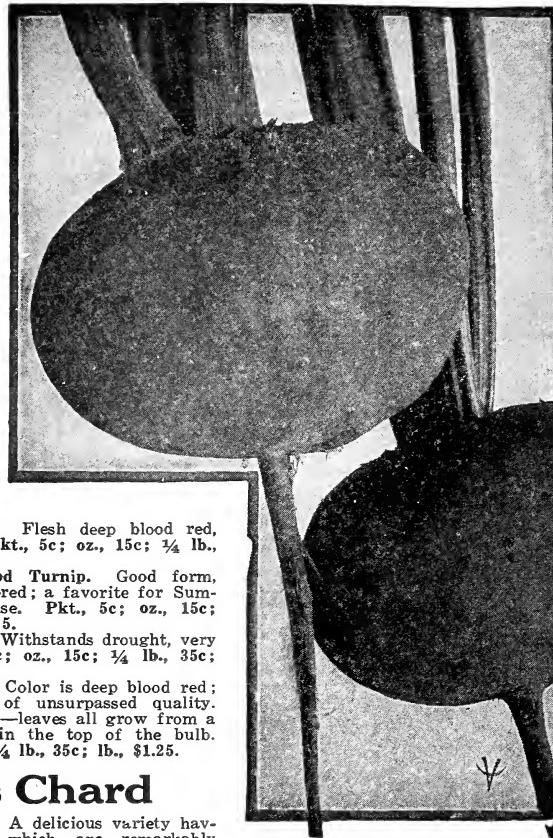
Long Smooth Blood. Withstands drought, very dark red. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

New Crimson Globe. Color is deep blood red; fine grained, and of unsurpassed quality. The foliage is small—leaves all grow from a very small crown in the top of the bulb. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

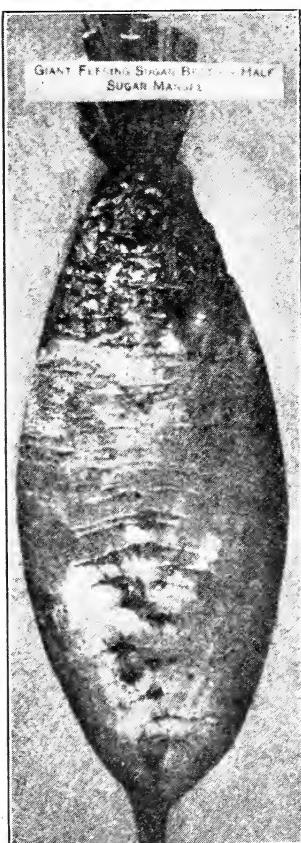
Swiss Chard

New Giant Lucullus. A delicious variety having green leaves which are remarkably crimped and curled like savoy-leaved cabbage. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

Large-Ribbed White. This variety is largely grown for the broad white leafstalks which, when bunched and cooked in the same manner as asparagus, make a delicious summer vegetable. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.



Johnson's New Wonder.



Broccoli Hardier than Cauliflower.

Culture.—Should be treated the same as cauliflower, which it resembles. Grows larger and taller. A packet will produce about 250 plants, about 3,000 plants to an ounce.

White Cape. The large white heads are handsome; of delicate cauliflower flavor. Matures its heads in 150 days. Pkt., 10c; $\frac{1}{2}$ oz., 35c; oz., 60c.

Sow in May or June in drills 2 feet apart. When well started thin to 9 inches apart in the row. Cultivate shallow and often.

Golden Tankard. The root is quite large and of an almost cylindrical shape, narrowing abruptly at both ends. The skin is deep orange red. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00; in 10 lb. lots, 90c per lb.

Giant Long Red or Mammoth Prize. This is the largest of all the Mangels. The root is 15 to 18 inches long, over 6 inches thick, and with a heavy shoulder. It grows one-half above the ground and is easily pulled. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00; in 10 lb. lots, 90c per lb.

Giant Half-Sugar Rose. The root of this variety is very large, smooth, and clean, of oval shape, growing one-half out of ground and is easily pulled. The skin is rose white with a deeper rose-colored tip. A heavy cropper. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00; in 10 lb. lots, 90c per lb.

Sugar Beets

Vilmorin's Improved. The finest variety grown. Highest in nutritive value and in percentage of sugar. Very regular in shape; yields large crops and is recommended for most soils. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00; in 10 lb. lots, 90c per lb.

Brussels Sprouts

Culture.—Same as late Cabbage. **Half Dwarf Paris Market.** A dwarf variety, producing numerous heads. Pkg., 10c; oz., 25c; $\frac{1}{4}$ lb., 90c.

Cardoon

Cardoon is grown for the edible midrib of the leaf, which requires blanching in the same manner as celery. Sow sparingly, early in spring, in drills 1 inch deep and 4 or 5 feet apart; later, thin out the young plants to about 2 feet apart in the row.

Large Smooth Spanish. Grows about 4 feet high. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 80c.

Chervil

One ounce will sow about 100 feet of drill.

Culture.—Sow in drills one foot apart in early Spring or Fall; covering seed about one-half inch. Thin out plants to 4 inches in row; leaves ready in 6 to 8 weeks. Curled variety used like Parsley. Can also be sown in August or September; thin out to six inches in row, and rows fifteen inches apart.

Curled. Largely used in soups and salads. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., \$1.00.

Cabbage

For very early use sow in January or February in hotbeds; prick out the plants into other hotbeds, or sow in hotbeds in March. Transplant to the open ground when danger from killing frost has passed, in rows 2 feet apart and 18 inches from plant to plant. For succession, sow in the open ground the last of March or early in April. The autumn and winter varieties may be sown early in May in shallow drills 3 or 4 inches apart; transplant early in July, making the rows about 2½ feet apart, and setting the plants 2 feet apart in the rows.

Copenhagen Market

This most valuable early Cabbage from Denmark, produces a large globe-shape head, which comes into market along with Early Jersey Wakefield. It is well known that Denmark is a great Cabbage and Cauliflower country, and our seed comes direct from the originator. Produces fine, large heads uniform in shape and size and very solid, with few loose leaves. Vigorous grower and an excellent keeper. Pkt., 10c; ½ oz., 35c; oz., 65c; ¼ lb., \$2.25.

Johnson's Premium Flat Dutch

Continued care and critical selection on the part of our grower have given us a very thoroughbred strain of this standard Cabbage. The heads are flat on top, and are solid and large. It cuts white and crisp, the flavor is excellent, with no stringiness. This strain is slightly earlier and quicker growing than most of the Premium Flat Dutch that is offered. We do not hesitate to recommend our stock to the largest growers, as it has been so long bred to a standard that it can truly be called a pedigree strain. Our seed has come from the same grower for over 20 years. Pkt., 5c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.25.



Perfection Drumhead Savoy.

Carrots

Carrots, to grow to perfection, require a rich, deep sandy loam, well pulverized and deeply cultivated. For an early crop sow in May and June in drills about 1 foot apart, thinning out to 3 inches in the row; sow for main crops in June and July.

Earliest Short Horn. (French Forcing.) This variety is one of the earliest to mature, and may be used when only four or five leaves have formed. The roots do not grow large, are almost globular in shape, reddish orange color and of excellent flavor. It is an excellent variety for forcing under glass and may also be used for both early and late sowing outside. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.25.

Select Chantenay Half Long. (See illustration.) An excellent table variety, of a rich, dark orange color. In earliness it ranks intermediate between the Danvers and the Short Horn. It is of the style of the Danvers, but finer, and more symmetrical, and therefore better as a market carrot for the table. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

Extra Select Danvers. This is a broad-shouldered Carrot of cylindrical form about 8 inches in length by 2½ inches in diameter at the shoulder. Color, orange red; skin smooth; cooking qualities superb; in fact, no Carrot excels it in the essential qualities of uniform size, smoothness, sweetness, flavor and deep color. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

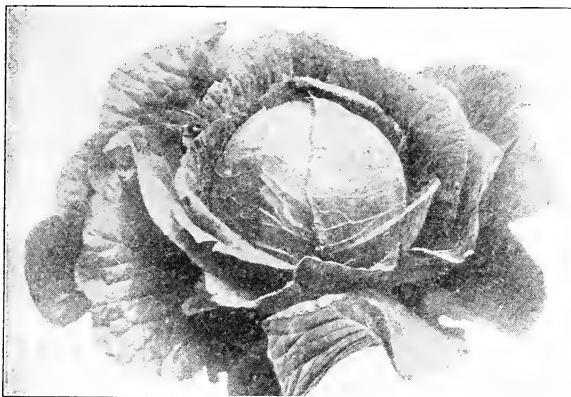
Selected Oxheart. Used largely for stock. Thick stump rooted. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

Early Scarlet Horn. Especially fine for bunching early in season. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

Improved Long Orange. Very popular for main crop; heavy yielder. Pkt., 5c; oz., 20c; ¼ lb., 40c; lb., \$1.25.

Rubicon. Similar to Danvers, a little thicker. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

Large White Belgian and Large Yellow Belgian. For feeding. Either sort. Pkt., 5c; oz., 10c; ¼ lb., 30c.



Copenhagen Market Cabbage.

New Chinese Cabbage, Wong Bok. This wonderfully improved Chinese Cabbage has such a delicate flavor that it has been variously named, "Odorless Cabbage," "Celery Cabbage," etc. We earnestly advise all who want something new and better, to try it. Grown same as Cabbage. Makes an extra fine salad. Pkt., 15c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.50. See page 5.

Select Early Jersey Wakefield. The standard early variety, conical in shape; medium-sized heads; very solid. Pkt., 5c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.25.

Glory of Enkhuizen. Standard early variety of round-headed type; grown to good size. Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., \$1.50.

Charleston Wakefield. Not quite as early as the regular Jersey Wakefield, but the heads are considerably larger, very solid. Pkt., 5c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.25.

Henderson's Early Summer. About ten days later than Jersey Wakefield; large, solid flat heads of superior quality. Pkt., 5c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.25.

Succession. About one week later than Early Summer, but is double the size; very uniform and a sure header. One of the finest mid-season Cabbages grown. Pkt., 5c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.25.

All Seasons. (Selected.) Whether for medium early, main crop or late use, this is unsurpassed by any other sort. Pkt., 5c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.25.

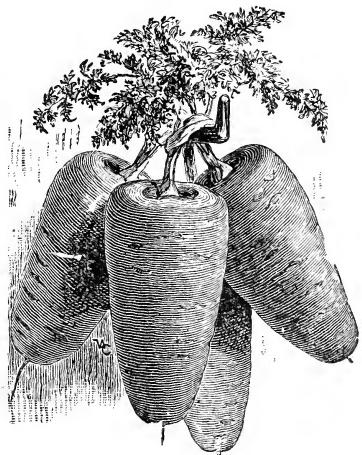
Large Late American Drumhead. One of the largest, most solid, and best keeping late varieties. Pkt., 5c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.25.

Perfection Drumhead Savoy. (See cut.) For Winter use, this variety is unsurpassed. The largest solid-heading Savoy, and has the rich flavor of the cauliflower. The plants are strong and vigorous, and withstand the ravages of the cabbage worm better than other sorts. This is the best kind of Savoy Cabbage. Pkt., 5c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.25.

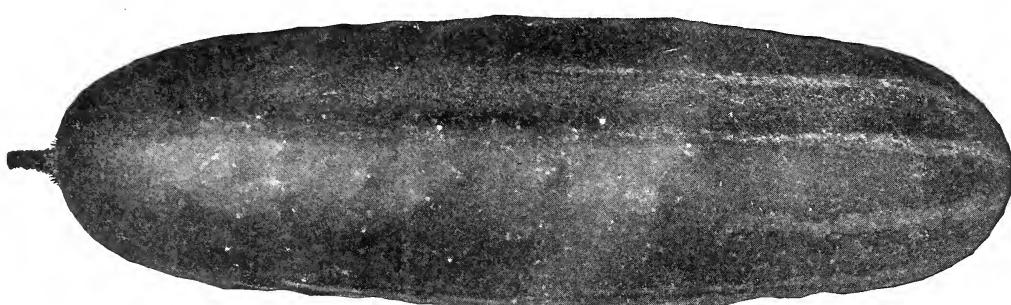
Mammoth Red Rock. The largest and most reliable heading red cabbage yet introduced; round, solid heads of deep red color. Pkt., 10c; ½ oz., 35c; oz., 65c; ¼ lb., \$2.25.

Danish Ball Head, Short Stem. Direct from best grower in Denmark. Pkt., 5c; ½ oz., 35c; oz., 65c; ¼ lb., \$2.25.

Volga or Early Stonehead. Splendid for either early or fall planting. Very solid. Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., \$1.75.



Select Chantenay Carrot.



Johnson's Perfect White Spine Cucumber.

Cucumbers

Culture.—Flourish best in a rich, sandy loam. Sow when danger of frost is over, in hills 4 to 5 feet each way. As the young plant has many enemies sow thickly half an inch deep, and thin out finally to three or four plants to the hill. Use one ounce of seed to 75 hills; two or three pounds to the acre. Gather cucumbers by cutting, not by tearing. Leave none to ripen if you want a full crop. Use Slug Shot to keep down bugs.

Johnson's Perfect White Spine. (See illustration above.)

This is the finest type of White Spine in cultivation. Perfect shape and dark green color. The result of many years' selection. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c.

Extra Long or Evergreen White Spine. Vines are of vigorous growth with large, heavy foliage, thus resisting attacks of insects, etc. Our strain is the result of years of careful selection for uniformity and productiveness.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Arlington White Spine. Very popular strain of White Spine. Our seed is very select. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Boston Pickling or Green Prolific. The favorite for pickles.

Rather short dark green. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c.

Johnson's Selected Davis' Perfect. A long type of cucumber, of rich, dark green color and handsome shape. Our stock is very select. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 65c.

Jersey Pickling. Extremely productive and very popular. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c.

Improved Long Green. A late variety especially adapted for pickles. Deep green color and pleasant flavor. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Klondike. A most excellent table sort for slicing. Few seeds; very tender and of fine flavor. It is also unexcelled for pickling. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Chicago Pickling. Handsome shape, medium size. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c.

Japan Climbing. Fine for home use. Long, slim shape. Pkt., 5c; oz., 20c.

West India Gherkin. For pickling. Fruit is prickly. Pkt., 5c; $\frac{1}{2}$ oz., 20c; oz., 35c.

Rollinson's Telegraph. For greenhouse forcing. Pkt., 25c. **Carter's Model.** For greenhouse forcing. Pkt., 25c.

Cauliflower

Cauliflower succeeds well in any soil where Cabbages will grow. It delights in a rich soil and abundance of water. By sowing the early varieties in a hotbed in February or March, fine heads can be obtained in May or June. For a later supply sow seed in a prepared bed in May, choosing a cool, moist place. When large enough, transplant, making the rows about $2\frac{1}{2}$ feet apart and 18 inches between the plants. Transplanting should be done in moist weather.

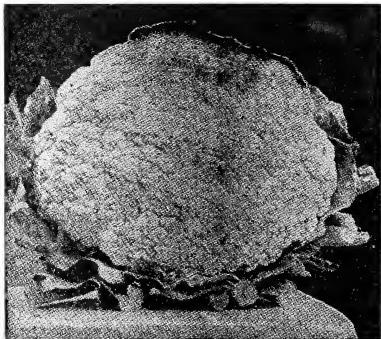
We challenge comparison of our Cauliflower seed with stock offered by any one. It comes from the most reliable grower in Denmark and no expense is spared to get the best.

Gilt Edge Snowball. Very early and compact. Most reliable for heading. Genuine Denmark grown. Pkt., 15c and 25c; $\frac{1}{4}$ oz., \$1.25; $\frac{1}{2}$ oz., \$2.25; oz., \$4.00.

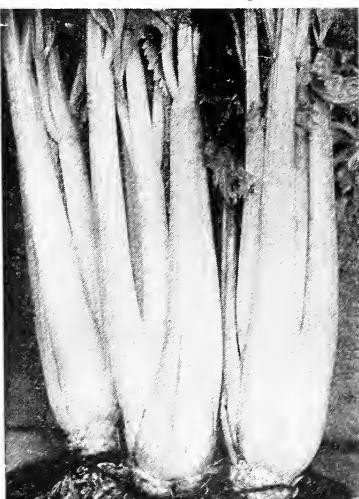
Early Dwarf Erfurt. This is a very reliable and popular variety when our select seed is used. We handle only the best seed grown. Heads very white, compact and close. Pkt., 15c and 25c; $\frac{1}{4}$ oz., \$1.10; $\frac{1}{2}$ oz., \$2.00; oz., \$3.75. **Danish Giant or Dry Weather.** Quite early and will succeed when other sorts fail. Pkt., 25c; $\frac{1}{4}$ oz., \$1.25; $\frac{1}{2}$ oz., \$2.25; oz., \$4.00.

Early Favorite. This is a second early, exceedingly hardy, easily grown sort.

It is perhaps the best sort for the inexperienced grower, as it will head under conditions in which many sorts would fail. The large heads are crisp, tender and of fine quality. It keeps in condition for use a long time. Pkt., 10c; oz., \$1.50; 2 oz., \$2.50; $\frac{1}{4}$ lb., \$4.50.



Gilt Edge Snowball Cauliflower.



Columbia Celery.

Celery

Sow very early in Spring in moist rich ground. When the plants are from 4 to 6 inches high transplant into trenches 4 inches deep, 9 inches wide, and 3 feet from trench to trench; set the plants 6 inches apart in rows.

Golden Self-Blanching. Strictly French Grown seed. We are very proud of the showing made by our stock of Golden Self-Blanching in the Cleveland markets last season. Its rich yellow color is very attractive. It is of dwarf, compact habit and blanches readily. Pkt., 10c; $\frac{1}{2}$ oz., 65c; oz., \$1.25; $\frac{1}{4}$ lb., \$4.50.

Columbia. Stalks are thick, almost round, and resemble Giant Pascal in shape, but are of a rich, yellow color, similar to the well-known Golden Self-Blanching. It matures early and its exceedingly fine flavor and crispness will please the most critical. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

Fordhook Emperor. Noted for solidity and pronounced nutty flavor. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., \$1.25; $\frac{1}{4}$ lb., \$3.50.

New Easy Blanching. This fine new Celery is about two weeks later than Golden Self-Blanching, but blanches much easier and is much superior in quality. Pkt., 10c; $\frac{1}{2}$ oz., \$1.10; oz., \$2.00.

Winter King. Noted for its long-keeping qualities. The plant makes a healthy growth, producing stout stalks, which blanch up beautifully, and the quality and flavor are excellent. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.25.

Giant Pascal. Strictly French Grown seed. No other sort equals Giant Pascal for Winter use at home and for nearby markets. It is too crisp for shipping. The stalks are remarkably large, thick, solid and entirely stringless. Very crisp and brittle, snapping like glass. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c; $\frac{1}{4}$ lb., \$1.75.

Improved White Plume. A most popular variety, requiring very little banking up; fine flavor, and very tender. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 75c.

TURNIP ROOTED CELERY. (Celeriac.) Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c.

Sweet Corn

The Sweet or Sugar varieties, being liable to rot in cold or wet ground, should not be planted before May, or until the ground has become warm; for a succession continue every two weeks, until the middle of July, in hills 3 feet apart each way, covering about half an inch, and thin out to 3 plants to a hill.

Johnson's New Verifirst. (See page 5.)

Johnson's New Golden Standard. This new sort is very similar to De Lue's Golden Giant and we recommend it very highly. See full description and cut on page 4. makes a fine succession for Golden Bantam. Pkt., 15c; $\frac{1}{2}$ pt., 30c; pt., 50c.

Earliest Mayflower. This is a ten to twelve rowed white corn, larger than Mammoth White Cory and from three to five days earlier. Three seasons' trials of this splendid sort have convinced us that it is the coming extra early Corn. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Golden Bantam. Produces ears measuring about five inches, but the smallness of ears is fully made up by the deliciously sweet flavor and tender quality of the Corn when cooked. By all odds the finest extra early variety when quality is considered. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Howling Mob. A large eared early sweet corn, ready for use about five days later than Mammoth White Cory, generally producing two good ears to a stalk, averaging 7 to 9 inches long, with 12 to 14 rows of pearly white grains. The stalks grow 4 to 5 feet high. An excellent home or market sort. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Mammoth White Cory. Considered one of the best early Sweet Corns. It produces stalks about four feet high, each generally bearing two large, finely shaped ears which become fit for use in about 52 days. They are 12-rowed, six to seven inches long, very symmetrical and handsome, seldom with any opening between the rows at the base. Grain large, broad, very white and of remarkably good quality for such an early sort. Its size and beauty give it ready sale even when the market is overstocked. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Kendel's Early Giant. Large, handsome ears of fine quality, very early. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Black Mexican. When in table condition the grains are pure white and quality delicious. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Early Evergreen. Ripens about ten days earlier than Stowell's Evergreen. Ears large and uniform. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Stowell's Evergreen. The most popular variety grown, ears large and very sweet. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Country Gentleman. The finest of all sweet corns for the table, and when once used no other sort is quite good enough. A very heavy husk protects this Corn which retains its tenderness and keeps it "in the milk" a surprisingly long time. Ears average eight to nine inches in length; cobs small and grain very deep. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Pop Corn

Monarch White Rice. This is the best Pop Corn for home or market. Select ears. Lb., 30c; 3 lbs., 75c; 10 lbs., \$2.25.

Cress or Pepper Grass

Culture.—Can be sown in the early spring, outdoors in rows 1 foot apart, covering seed about one-quarter inch and sow thickly. A packet will sow about 40 feet of drill, an ounce about 200 feet. Ready to use in 20 to 40 days.

Extra Curled. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.
True Water Cress. Pkt., 10c; oz., 35c.

True Georgia Collards

Forms a loose head of cabbage-like leaves, which are largely used for greens; ready for use in 45 days. Sow like cabbage. Set a foot apart in rows 2 to 3 feet apart. Can also sow seed in June, July and August. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Corn Salad

Culture.—Treat like lettuce, except that it may be planted closer, as it is smaller. It is hardy, and may be carried through the winter in cold frame or under litter. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

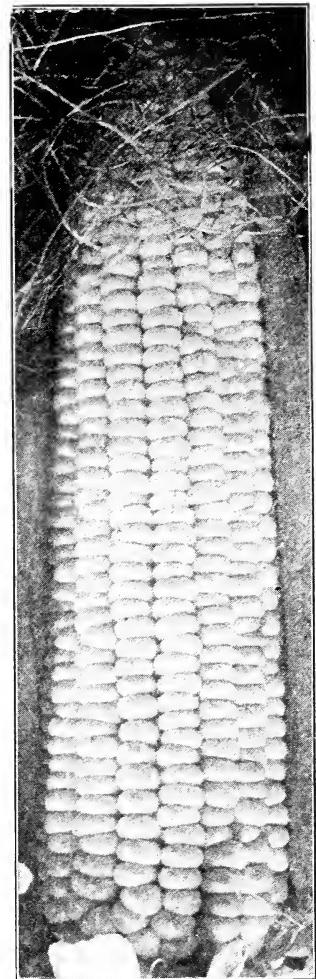
Dandelion

A hardy perennial. Sow in early spring, in drills half an inch deep, and thin to 2 or 4 inches in the row.

Improved Thick Leaf. Pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00.

Dill

Long Island Mammoth. Leaves are used in pickles and for flavoring soups and sauces. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.



Earliest Mayflower Corn.

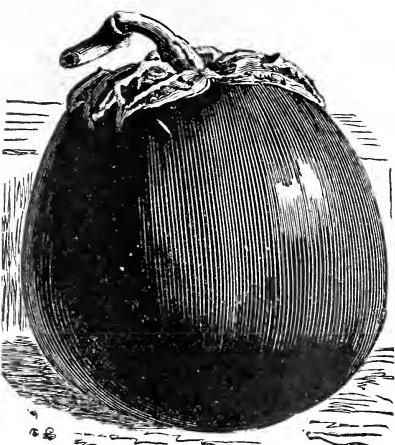
Chicory (French Endive)

Witloof. Known in restaurants as French Endive. Sow in May and June in drills. Transplant or thin to 6 inches; treat as Endive, except that late in summer or fall it should be gradually banked up like celery. The stalks, when blanched, make a delicious salad. It may also be allowed to grow in the garden until the tops die down, leaving a root somewhat like a parsnip. These are taken into a shed and kept in a heap of soil away from frost and light, to be transferred to a hothouse when needed to produce the heir blanched heads during winter. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 90c.

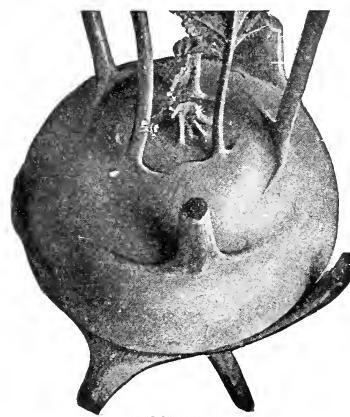


French Endive.

Golden Bantam Corn.



Johnson's Select New York Purple Egg Plant.



Kohl Rabi.

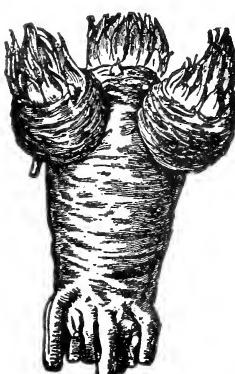
Leek

Sow as early in Spring as practicable, in drills one inch deep and one foot apart. When six or eight inches high, transplant in rows ten inches apart each way.

Broad American Flag. The most desirable for family use.
Pkt., 10c; $\frac{1}{2}$ oz., 20c; oz., 35c; $\frac{1}{4}$ lb., \$1.00.

Large Carentan Winter. A very large variety of superior quality. Pkt., 10c; $\frac{1}{2}$ oz., 20c; oz., 35c; $\frac{1}{4}$ lb., \$1.00.

Horse Radish Roots



Horse Radish.

Maliner-Kren. This new variety from Bohemia is larger, earlier, and whiter than the common kind. We highly recommend it. Doz., 25c; 50, 75c; 100, \$1.25.

Common Variety. Very choice sets grown by an expert. Doz., 15c; 100, \$1.00.

Garlic Sets

This is extensively used in many places for flavoring soups, stews, etc. The sets should be planted early in Spring. Cultivate like onions. $\frac{1}{4}$ lb., 30c; 1lb., \$1.00.

Rhubarb Roots

We handle heavy, divided roots, of which we have a fine stock, and we offer as follows: 20c each; \$2.00 per doz.

Egg Plant

For best results, Egg Plants require rich soil, moisture and warm weather. Sow in gentle heat from middle March to middle April. Transplant from June 1st to June 15th, setting the plants about 3 feet apart each way.

Johnson's New Purple Tokyo. This is the finest sort for home use. Extra early, surprisingly prolific, quality splendid. Size about 7 inches long and 2 inches in diameter. Pkt., 10c; $\frac{1}{2}$ oz., 50c; $\frac{1}{4}$ lb., \$1.75.

Black Beauty. A splendid sort about two weeks earlier than New York Purple. Color dark rich purple. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c; $\frac{1}{4}$ lb., \$1.75.

Johnson's Select New York Purple. The most popular main crop sort, fruit being largest and handsomest of all. Very solid, of rich shining deep purple color. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c; $\frac{1}{4}$ lb., \$1.75.

Endive

One of our best salad plants, especially valuable for winter use. For a first crop, sow about the middle of April; for succession, small sowings may be made every month until August, when the main planting is made. Set out the plants one foot apart.

Green Curled. A hardy, vigorous growing endive with bright deep green leaves. The dense mass of deeply divided leaves formed in the center blanches very readily to a rich cream color. This sort is highly esteemed for the home garden, and is much used for salads. Pkt., 10c; oz., 20c; 2 oz., 35c; $\frac{1}{4}$ lb., 60c.

Everwhite Curled. (See cut.) Blanches rapidly and is very tender. Pkt., 16c; oz., 20c; 2 oz., 35c; $\frac{1}{4}$ lb., 60c.

Broad Leaved Batavian. (Escarolle.) Leaves long and broad, thick and succulent. One of the choicest salads. Pkt., 10c; oz., 20c; 2 oz., 35c; $\frac{1}{4}$ lb., 60c.

Kohl Rabi

(One ounce produces 2,500 plants.)

If you have never grown Kohl Rabi, you should try it this year. It is a most excellent vegetable, intermediate between the cabbage and turnip. Cultivate like cabbage and, when young, cook like turnips.

Early White Vienna. Flesh clear white, outside greenish white. Most popular. Pkt., 10c; $\frac{1}{2}$ oz., 20c; oz., 30c.

Early Purple Vienna. Same as above excepting skin is purple. Pkt., 10c; $\frac{1}{2}$ oz., 20c; oz., 30c.

Large Green. A late, very large-growing sort with immense bulbs, stems and leaves. Pkt., 10c; oz., 30c.



Leek.

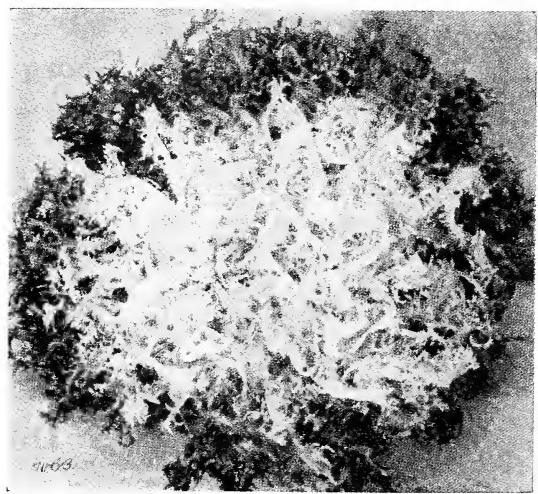
Kale or Borecole

Sow about middle of April in well prepared beds covering thinly and evenly. Plant out in July like cabbage and give same culture.

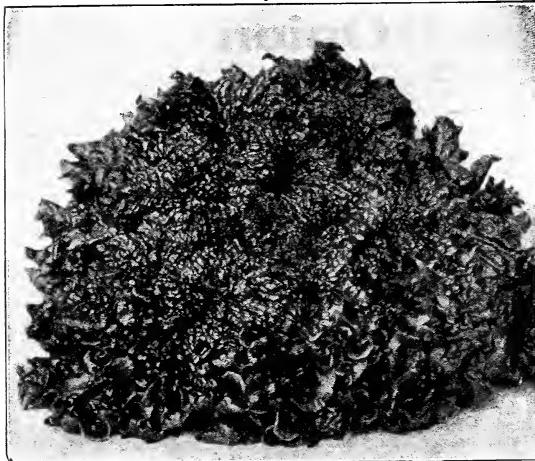
Dwarf Green Curled Scotch. Very hardy, nicely curled. Most popular sort. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c.

Dwarf Curled Siberian. (German Greens.) Dwarf curled; bluish green; very hardy. May be sown in August. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

Tall Curled Scotch. Grows tall and very curly. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.



Everwhite Curled Endive.



Black Seeded Simpson Lettuce.



Emerald Gem Muskmelon.

Lettuce

Lettuce thrives best in a light, very rich, moist soil. For first crop sow in gentle heat in February, and transplant to 10 inches apart. For a Summer supply sow thinly in shallow drills 18 inches apart, and transplant or thin out, leaving a foot between the plants. Sowing may be made from April to the end of August.

Butter-Head Lettuce

Iceberg. A curly Lettuce, large, solid heads. The outer leaves are light green in color, and their habit of branching towards the center of head is a great aid to the blanching of heart. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.
Big Boston. Fine for forcing in coldframes or for early outdoors. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c.

Drer's Allheart. Splendid for greenhouse forcing or for very early outdoor heads. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Burpee's Wayahead. A new and very desirable early heading sort for outdoor culture, in the home garden. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

French Unrivalled. This is similar to Big Boston excepting that the leaves are solid green and not tinged at edges. Pkt., 5c; oz., 35c; $\frac{1}{4}$ lb., \$1.00.

California Cream Butter. A splendid Cabbage Lettuce; outside leaves light green, inside crystal white, with yellow heart. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Black Seeded Tennis Ball. The best heading variety for use under glass. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Hanson Improved. Heads large, and stands the Summer well. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Improved Salamander. Large heads that stand the drought and heat longer than any other. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Mammoth Black-Seeded Butter. A large head of splendid quality. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

May King. Extra large, round solid heads. Very early. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Trionon Self-Closing Cos. Leaves long, narrow, forming close upright heads. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

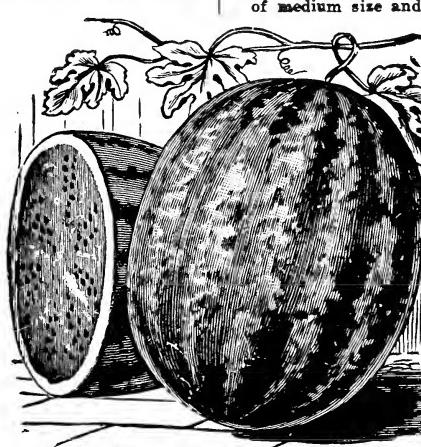
Paris White Cos. Very early, requires tying to blanch. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Loose-Leaved Lettuce

Grand Rapids Forcing. Crisp and tender; leaves frilled. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Early Prize Head. A large clustering lettuce, most excellent for the home garden and the most easily grown variety in cultivation. Too tender to stand handling on the market. The leaves are very crisp, tender and sweet. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 45c.

Black Seeded Simpson. (See illustration.) One of the best for sowing outdoors. Exceedingly tender. The color is an attractive light yellowish green. The leaves are ruffled and blistered. Pkt., 5c; oz., 20c; 2 oz., 35c; $\frac{1}{4}$ lb., 65c.



Phinney's Early Watermelon.

Melon, Musk

After all danger of frost is over, and the ground has become warm and dry, plant in hills 4 to 6 feet apart each way, 6 to 12 seeds to a hill. When up, and all danger of insects has passed, pull out all but 3 plants. Cultivate until the vines cover the ground, and pinch the ends of the growing shoots to induce early fruiting.

Johnson's New Lake Champlain. (See page 6.)

Emerald Gem. (Salmon flesh.) (See cut.) This beautiful melon is early and prolific. The skin is smooth, of a deep emerald green color. The flesh is thick and firm, ripening almost to the rind. Well adapted to Northern Ohio. Noted for its high quality. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Honey Dew. This new sort is well worthy of a trial by all who love Muskmelons. It has created sensations wherever high class hotels have served it. Pkt., 10c; $\frac{1}{2}$ oz., 20c; 1 oz., 35c.

Selected Osage. Well suited to sandy soil. Yellow flesh, fine quality. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Paul Rose. Fine for clay soil. Salmon flesh, size medium. Very early. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

New Fordhook. Salmon flesh, flattish shape, well netted. flesh thick, very early. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Tip Top. Select Stock. Good size, superb quality; salmon flesh. Our stock is fine. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Extra Early Hackensack. Standard extra early sort. Green flesh. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Netted Gem or Rocky Ford. The melon which made Rocky Ford famous. Small, early, green flesh. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Sutton's Windsor Castle. (English Forcing.) The best green fleshed variety for the greenhouse. Pkt., 25c.

Carter's Blenheim Orange. (English Forcing.) The best scarlet fleshed variety for the greenhouse. Pkt., 25c.

Melon, Water

Phinney's Early. The finest of all the early maturing melons of medium size and oblong shape. The rind is thin. The red flesh is very sweet and tender. The vine is productive and a sure cropper, the melons maturing early. Adapted to all sections, and does exceptionally well in the Northern States. The very quickest sort to mature. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.00.

Cole's Early. Very early. Large heart, flesh of fine texture and good flavor. Rind thin. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.00.

Ice Cream. Exquisite quality; red flesh, medium size; early. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.00.

Sweetheart. Large, very fine flavor, solid, fine shipper. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.00.

Pearless. Very similar to Ice Cream. Quality fine. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.00.

Kleckley Sweet. A new melon. Very popular. Long, dark, exquisite quality. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.00.

Citron. For preserving. Very hardy and productive. Good keeper. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.00.



**Ohio
Yellow Globe**

Mushroom Spawn

HAVE FRESH MUSHROOMS ON YOUR TABLE
EVERY DAY.

Pure Culture. (In bricks.) The finest quality. This is vastly more dependable than the old style of English Mill-track Spawn, and costs but little more. Bricks, 35c each; 10 bricks, \$3.00. Ask for prices for large lots. Free Leaflet on Mushroom Culture on request.

Okra or Gumbo

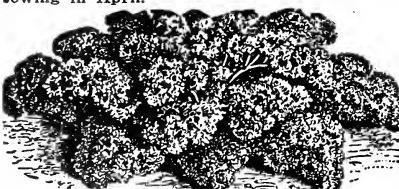
Sow after the middle of May, or early in June, in rich soil in drills about an inch deep and 3 feet apart; thin out to 8 inches.

White Velvet. Tender white pods, smooth, and velvety appearance. Pkt., 5c; oz., 10c; 1/4 lb., 30c.

Perkin's Mammoth. The long pods measuring 4 and 5 inches are produced in great quantities. The appearance is handsome, of green color and best quality. Pkt., 5c; oz., 10c; 1/4 lb., 30c.

Parsley

Culture.—Soak seed for several hours and sow in border or frame. Thin the rows or transplant to 8 inches each way. Use one ounce of seed to 150 feet of drill. Make open air sowing in April.



voring soups, etc. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.25. Champion Moss Curled. A choice, selected strain, with beautifully crimped and curled leaves. Pkt., 5c; oz., 15c; 1/4 lb., 40c.

Johnson's New Bouquet. (See page 7.)

Peanuts

New Mammoth Bush. These nuts make compact bushes eighteen inches high, with heavy, erect stalks. They produce a large quantity of the mammoth nuts, adapted for culture in our northern climate, especially in light or sandy soils. Half pint, 20c; pt., 35c; qt., 60c.

Parsnips

Culture.—Parsnips do best in deep, rich, sandy soil, but will make good roots on any soil which is deep and mellow and moderately rich. As the seed is sometimes slow to germinate it should be sown as early as possible; cover one-half inch deep, and press the soil firmly over the seed; give frequent cultivation and thin the plants 6 or 8 to the foot. One ounce will sow 150 feet of drill; 5 lbs., one acre.

Improved American Hollow Crown. (Guernsey.) An improved strain of the old standard Hollow Crown. This has been selected for handsome form, whiteness of skin and flesh, firm, solid texture, good size, uniform shape and freedom from tendency to side roots. Pkt., 5c; oz., 15c; 1/4 lb., 50c; lb., \$1.75.

Onion

Ohio Yellow Globe. Our seed of this finest of all Yellow Globe Onions is grown in Lake Co., Ohio, by one of the most expert onion men in the state. The strain is distinguished by a distinct, attractive shape and a handsome bright even yellow color,—ripens early and all at once; neck very small, and cures down to almost nothing. The firm, solid bulbs are excellent winter keepers, and all that can be desired in size and quality; yielders—800 bushels per acre are frequently grown on rich onion land. This is a superb onion for all classes of soil and especially good for all northern Ohio onion sections on account of quick maturing. Prices of select stock grown in Northern Ohio. Pkt., 5c; oz., 20c; 1/4 lb., 65c; lb., \$3.75.

Ailsa Craig. It has a handsome appearance, being large—12 have been known to weigh 30 pounds—it has fine straw-colored skin; these qualities make it excellent for exhibition purposes, in which it is a successful competitor of large, imported Spanish onions. The shape is globular and it forms a fine thin neck for a large onion. A splendid keeper; for eating raw it has no superior, it is mildly pungent in flavor, sweet and desirable. Pkt., 10c; oz., 30c; 1/4 lb., \$1.00; lb., \$8.75.

Southport Red Globe. Select Stock. Immense yielder. Very popular where our genuine seed is used. Pkt., 5c; oz., 20c; 1/4 lb., 65c; lb., \$2.50.

Yellow Globe Danvers. Select stock. The standard sort so long in use. Good keeper and yielder. Pkt., 5c; oz., 20c; 1/4 lb., 60c; lb., \$2.00.

Mammoth Yellow Prizetaker. American grown seed. Grows very large and handsome. White flesh, mild flavor. Pkt., 5c; oz., 20c; 1/4 lb., 65c; lb., \$2.50.

Southport White Globe. A magnificent globe shape white variety, very popular. Pkt., 10c; oz., 35c; 1/4 lb., \$1.00; lb., \$3.50.

Southport Yellow Globe. Handsome, globe-shaped sort of large size, yellow skin, white flesh, fine grained, mild, firm and good keeper. Has yielded 1,000 bushels per acre. Pkt., 5c; oz., 20c; 1/4 lb., 65c; lb., \$2.50.

White Portugal. Very early, flat white sort. Mild flavor. Largely used for growing sets. Pkt., 10c; oz., 35c; 1/4 lb., \$1.00; lb., \$3.50.

White Queen. Used to produce pickling Onions. Pkt., 10c; oz., 35c; 1/4 lb., \$1.00.

Onion Sets

Sets will produce green onions much quicker than seed. As soon as the ground can be worked in Spring, set in rows 1 foot apart and three inches in the row. For succession continue planting every two weeks.

White Bottom Sets. Mild. Very popular. Qt., 25c.

Yellow Bottom Sets. Preferred by many on account of stronger flavor. Qt., 20c.

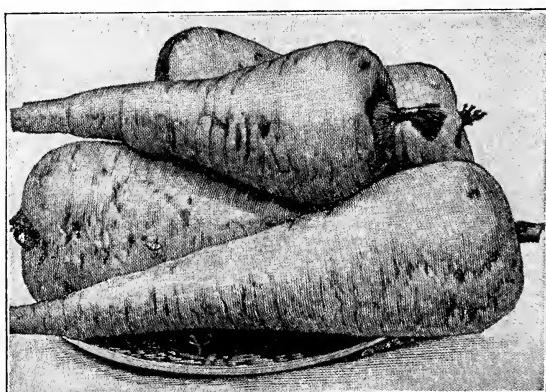
Egyptian Winter Sets. Plant in August and September for use late in fall and following Spring. Very hardy. Qt., 20c.

Mustard

Sow thickly during early Spring, in shallow drills 12 inches apart. For Fall use, sow in September.

Southern Giant Curled. The large leaves, which often measure 14 inches, are ready for use in about six weeks after sowing. Plants will continue to yield until frosty weather. Leaves are eaten boiled like spinach. Pkt., 5c; oz., 10c; 1/4 lb., 30c.

Fordhook Fancy. Plants are of vigorous growth, and have beautiful dark green leaves which curve outward like a fine ostrich plume. It stands well, even during the hot summer months. It is even superior to the best spinach in flavor. Pkt., 5c; oz., 15c; 1/4 lb., 40c.



Improved American Hollow Crown Parsnips.

Garden Peas

Peas mature earliest in a light, rich soil; for general crop, a rich deep loam is the best. When grown in gardens sow in double rows six to eight inches apart, the rows two to four feet apart, the tall ones requiring brush. Commence sowing Alaska and First and Best as early as the ground can be worked in February or March; and continue with other sorts for a succession every two weeks until June. One quart for 8 rows 10 feet long.

Early Varieties

Alaska. The very earliest sort. Sometimes called First of All. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 30c; qt., 50c; pk., \$3.50.

First and Best. A round, hard-shelled variety. Can be sown when frost is barely out of the ground. Height, 2½ feet. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 30c; qt., 50c; pk., \$3.50.

Gradus or Prosperity. An Extra Early wrinkled Pea, hardy, early and profitable. This remarkable Pea is one of the most widely known varieties in cultivation. The vine is about 24 inches in height on good soil. The pods are borne abundantly. As many as 8 to 10 peas of the largest size and most luscious quality are found in each pod. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 40c; qt., 70c; pk., \$4.50.

New Extra Early Pilot. The pods and peas are nearly as large as those of Gradus, while they are produced as early as the smooth-seeded extra-earlies. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c; pk., \$4.00.

American Wonder. Early sort; height 10 to 12 inches. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c; pk., \$4.00.

Nott's Excelsior. An improvement on American Wonder, being as early and pods much larger. Height 14 in. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c; pk., \$4.00.

Sutton's Excelsior. The finest early large podded dwarf wrinkled pea. 1½ feet. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 40c; qt., 70c; pk., \$4.50.

Laxtonian. 15 to 18 inches high, very large pods, similar to Gradus in shape. Quality splendid. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 40c; qt., 70c; pk., \$4.50.

Thomas Laxton. One of the very earliest varieties. The plant is a very hardy and strong grower, producing extra large size pods in abundance. The quality is delicious and cannot be surpassed by any other variety. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 40c; qt., 70c; pk., \$4.50.

Little Marvel. A great acquisition. Height, 15 inches. Deep green, extra early, large pods, heavy cropper. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 40c; qt., 70c; pk., \$4.50.

Pioneer. One of the earliest of the wrinkled peas; robust in habit and bearing an abundance of handsome dark green pods well filled with large peas of fine quality. Height, 1½ feet. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 40c; qt., 70c; pk., \$4.50.

Peter Pan. Height, 15 to 18 inches. The largest podded of the dwarf varieties. Pods 4½ to 5 inches long, dark green in color, and well filled with large Peas of superb quality. Very productive. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 40c; qt., 70c; pk., \$4.50.

Second Early and Medium Varieties

Carter's Daisy. Pods containing 8 to 9 large wrinkled Peas equal to Telephone pods. Sometimes called Dwarf Telephone. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 40c; qt., 70c; pk., \$4.50.

Advancer. Prolific, well-filled pods, tender and delicious. 2 feet. Pkt., 10c; pt., 30c; qt., 50c; pk., \$3.50.

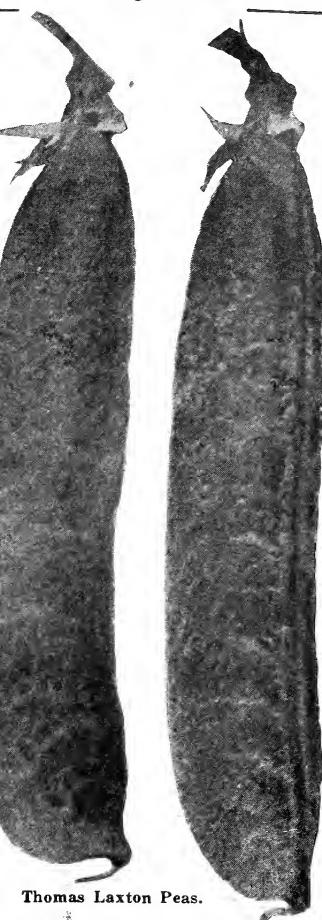
Premium Gem. A medium early green wrinkled Pea, which is exceedingly prolific. Height, 12 inches. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 30c; qt., 50c; pk., \$3.50.

Alderman. A remarkably strong growing, main crop variety of the Telephone type, with enormous dark green pods, containing 8 to 10 large, wrinkled Peas

Telephone. Immensely productive, finest quality. The pods are of large size, containing 6 to 7 Peas, of pale green color, of delicious flavor. 3½ feet. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 40c; qt., 70c; pk., \$4.50.

Duke of Albany. Prolific, upright and branching in habit, large pods well filled with extra large green peas. Height, 3½ feet. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 40c; qt., 70c; pk., \$4.50.

Johnson's New Prizewinner. The very top notch for table. (See under Specialties, page 7.)



Thomas Laxton Peas.

General and Late Crop Peas

Potlatch. The vines require no brushing, the pods are immense in size and fullness, and packed with peas that are sweet and rich flavored. Pkt., 10c; pt., 40c; qt., 70c; pk., \$4.50.

Dwarf Defiance. Very large pods, dark green. Peas large and very sweet. Pkt., 10c; pt., 40c; qt., 70c; pk., \$4.50.

Improved Stratagem. Pods of immense size, filled with very large, dark green Peas of the finest quality; height, 18 inches. Pkt., 10c; pt., 40c; qt., 70c; pk., \$4.50.

Champion of England. A popular wrinkled variety of delicious flavor; profuse bearer. Peas are large and very tender. 5 feet. Pkt., 10c; pt., 35c; qt., 65c; pk., \$3.75.

Large White Marrowfat. Pkt., 10c; pt., 25c; qt., 40c; pk., \$3.00.

Black-eye Marrowfat. Extensively grown as Field Peas. Pkt., 10c; pt., 25c; qt., 40c; pk., \$3.00.

Canada Field. Will quote lowest prices on application.

Pepper

Perfection Pimento. Especially desirable for the home garden both green and ripe. The hull or meat is two to three times as thick as that of the old "Bell" types. Very sweet and delicious and entirely free from pungency. A beautiful scarlet red. Pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 75c.

Ruby King. Large, mild. Pkt., 10c; $\frac{1}{2}$ oz., 35c; oz., 65c; $\frac{1}{4}$ lb., \$2.25.

Sweet Mountain. Standard sort; sweet. Pkt., 10c; $\frac{1}{2}$ oz., 35c; oz., 60c.

Early Neapolitan. Fruit of good size, growing on vigorous stalky plant. Flesh thick; mild. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 55c; $\frac{1}{4}$ lb., \$1.75.

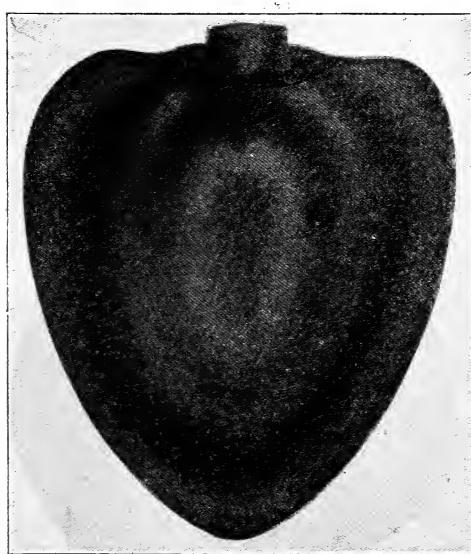
Red Squash or Tomato Shaped. Fruit small, flat, glossy dark red. Early, very productive, thick fleshed and sweet. Becoming more popular every season. Pkt., 10c; $\frac{1}{2}$ oz., $\frac{1}{2}$ oz., 50c; oz., 85c.

Large Bell or Bull Nose. Earliest sweet pepper. Pkt., 10c; $\frac{1}{2}$ oz., 35c; oz., 60c.

Long Red Cayenne. Small, long, slim, very hot. Pkt., 10c; $\frac{1}{2}$ oz., 35c; oz., 60c.

Red Chili. Small, bright red; hot. Pkt., 10c; $\frac{1}{2}$ oz., 35c; oz., 60c.

Chinese Giant. Largest of all. Mild. Pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 75c.



Johnson's Perfection Pimento.

NORTHERN GROWN SEED POTATOES

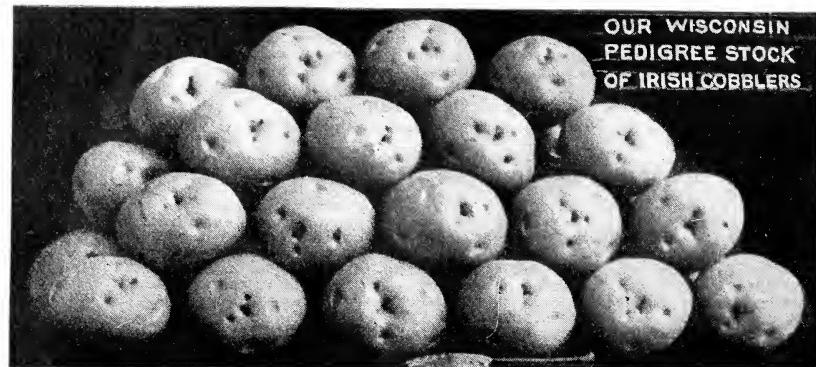
Our Potatoes are all Choices Northern Grown, especially for seed purposes. The following prices are based on values existing at the date of going to press with this catalog. We are often able to make material reductions during the winter or spring to purchasers of large lots. Correspondence invited, and we suggest getting our up-to-date prices when you are ready to buy.

Irish Cobbler

The tubers of this splendid extra early sort are oblong in form and nearly pure white skin. In earliness this variety stands very near the head of the list. Its table quality can hardly be excelled and its shape is very advantageous for cooking quickly, either by baking or boiling. The tops die down as soon as the crop is matured, so that the crop may be dug and the land planted to second crops. Half pk., 60c; pk., \$1.00; bu., \$3.50.

Early Bovee

Almost as early as Extra Early Ohio. In competitive trials with other early sorts it has outyielded them all. Vine dwarf and stocky. Tubes grow close together in the hill. Half pk., 60c; pk., \$1.00; bu., \$3.50.



Sir Walter Raleigh

A white-skin, main crop or late potato; quite uniform in size, with but few small ones among them. In fact, it can justly be claimed for Sir Walter Raleigh that it is the whitest fleshed, finest grained potato and the best and heaviest cropper of the whole list of main-crop varieties. In field culture it has gone above 450 bushels to the acre. Its record in all respects entitles it to rank with the very best late potatoes now grown upon American soil. Succeeds everywhere and is the style of potato most in demand in the markets just now. As a winter keeper we know of none better. No progressive cultivator should fail to give it a trial. Half pk., 50c; pk., 90c; bu., \$3.00.

Extra Early Ohio

Our Genuine Extra Early Ohios are now well known to our old customers but for the benefit of those who have not tried them we wish to say that our seed is grown with just as much care as is bestowed on Pedigree Seed Corn. Half pk., 60c; pk., \$1.00; bu., \$3.50.

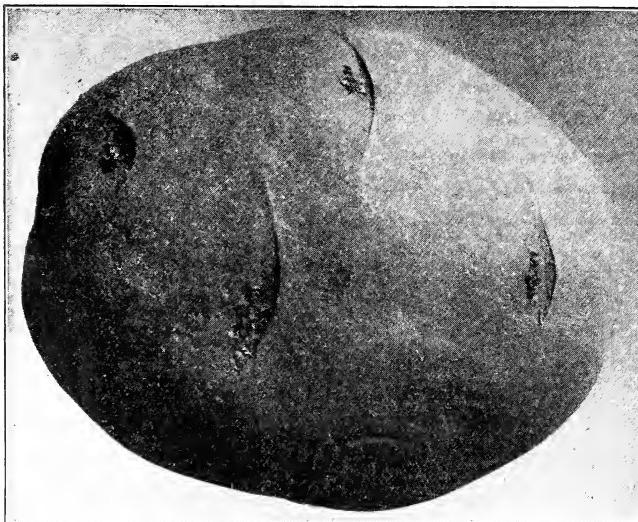
Pure Early Rose

An Old Standard and Favorite Leading Early Sort.

This standard variety has been a great favorite with planters for many years on account of its yield and quality. Potatoes are long in shape, good size, and light red in color. They cook mealy and of the finest flavor. Early Rose will never go out of fashion as long as the original stock, which we have, can be obtained. Half pk., 60c; pk., \$1.00; bu., \$3.50.

Carman No. 3

Doubtless the most popular late potato and certainly one of the most worthy. It yields great crops of fine large, smooth potatoes, even under the most unfavorable circumstances. It grows a very strong upright top with dark colored stalks and purple blossoms and is little affected by drought, blight or bugs. Half pk., 50c; pk., 90c; bu., \$3.00.



Carman No. 3 Potato.

Pumpkin

Culture.—Sow in good soil in May, when the ground has become warm, in hills 10 feet apart each way, or in fields of corn about every fourth hill; plant at the same time with the corn. Pumpkin varieties if planted together will mix. There is not much danger of their mixing or hybridizing with squashes or other vines. One ounce for 25 hills, 3 lbs. for an acre.

Sugar or New England Pie. This is the pumpkin from which the celebrated Yankee Pumpkin Pie is made. Very early and prolific, cooks very quickly and in the best quality. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

Winter Luxury Pumpkin. One of the best pie pumpkins in existence, and its winter-keeping qualities are almost unequalled. Is slightly oval in shape and of medium size. Evenly and finely netted and is a yellowish russet color. A great producer. Flesh deep golden color, sweet and tender. Matures in 95 days. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

Large Cheese. Flesh yellow and sweet. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

Connecticut or Large Yellow Field. Oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50. By express, 10 lbs., \$12.50.

Small Sugar Pumpkin.



Radish

To be crisp and tender, Radishes must grow quickly; whenever growth is checked by drought or cold weather, they become tough and pithy. Rich, light, sandy soil suits them best. For the forcing crop, sow seeds in hotbeds in rows 5 to 6 inches apart and thin the plants as the ground becomes warm. Seed of winter varieties should be sown in midsummer. Summer varieties are best adapted for general crop. An ounce of seed will sow about 75 feet of drill.

Earliest Sorts

Johnson's New Saxa. The earliest of the forcing radishes, and one of the slowest to shoot to seed. Round, bright scarlet and with the smallest possible top. (See cut and prices page 7.)

Improved Scarlet Globe. This new radish has a remarkable ability to bear the heat necessary for rapid growth without becoming pithy or losing flavor. As shown in the illustration, it is of surpassing beauty as regards shape and color. The flesh is crisp, tender, juicy, and mild. The color is a rich scarlet. It has a small top and the roots are surprisingly uniform in shape and size. We offer only the most carefully grown seed. (See cut.) Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Johnson's Home Table. A round radish of large size for so early a variety. The roots are nearly globe-shaped, of beautiful crimson-carmine color and most excellent quality, often growing one and three-fourths inches in diameter before becoming pithy. Pkt., 10c; oz., 20c.

Early Scarlet Turnip. A well-known and highly esteemed variety. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Early Round Dark Red. Same shape as the Scarlet Turnip, darker in color. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Prussian Globe Forcing. Very rich red globe for forcing. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 50c.

Fireball. Extra early round dark red for forcing. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

French Breakfast. A favorable sort, mild and crisp. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

White Tipped Scarlet Turnip. For early planting in frames or outdoors. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Earliest White May. Its beautiful pure white makes it very useful for mixing with other sorts. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 50c.

Rosy Gem. An extra early strain of White Tip Scarlet Turnip, adapted to forcing. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Cincinnati Market. The finest long Red Radish in cultivation, either for house or the market. (See illustration.) Skin scarlet colored, very thin, the flesh crisp, brittle and of delightful flavor. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Long Scarlet Short Top. Very long and crisp. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Icicle. A beautiful waxy white, long-rooted Radish, gradually tapering down from the shoulder which is about $\frac{1}{4}$ inch in diameter. The roots are usually 5 or 6 inches long and have small tops. This is the earliest of the long rooted early summer white sorts, desirable for outdoor planting and for forcing. Flesh is crisp and tender. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Summer Sorts

White Stuttgart. Shape like a turnip; skin and flesh both white, excellent Summer variety.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Long White Vienna or Lady Finger. Pure white in color, of long tapering shape. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Large White Summer. Large size and fine form. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Improved Chartier. The color at the top is crimson, running into pink about the middle, and from thence downward is pure white. Splendid for summer use. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Winter Sorts

China Rose. Bright rose color; fine for Winter use. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Round Black Spanish. Fine for Winter use.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Celestial. Flesh white and crisp; fit to use early in the Fall. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

California Mammoth White Winter. A white-fleshed Radish of excellent quality.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Rhubarb

Sow the seed early and when the plants are large enough, thin them to 4 or 5 inches apart. The next spring or fall transplant 3 feet apart each way in deep, rich soil.

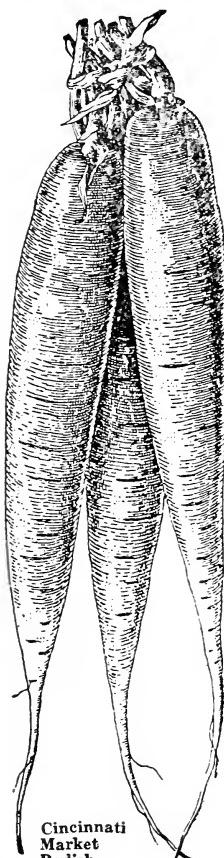
Victoria. The standard sort in use everywhere. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Rhubarb Roots. Each, 20c; doz., \$2.00.

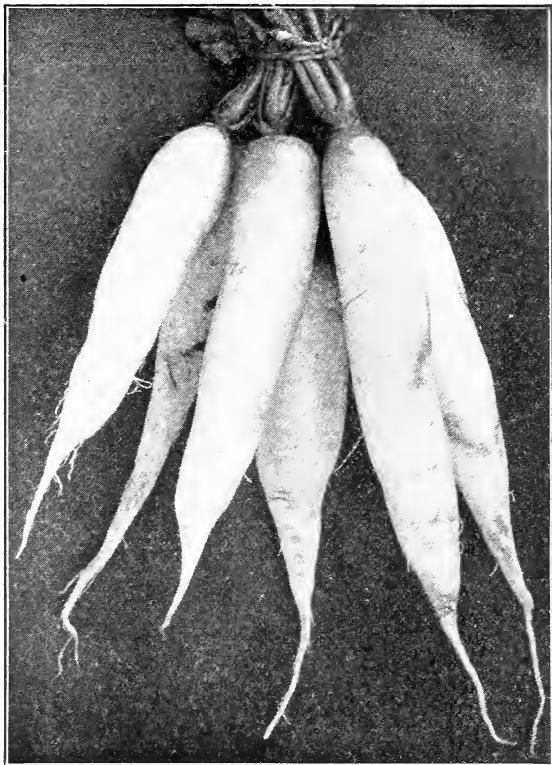
Sorrel

Culture.—Used for soups and salads on account of its pleasant acid flavor. Sow seed in any good garden soil, in shallow drills a foot apart. Thin plants to a few inches apart and remove seed stalks as soon as they appear.

Large-leaved French. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 65c.



Cincinnati Market Radish.



Icicle Radish.



Improved Scarlet Globe Radish.



Salsify or Oyster Plant.

Unlike any of the above varieties, this forms large, spreading plants which, when fully developed, cover as much as 5 feet of space in all directions. The tips of the branches are always brittle, tender and appetizing. As the tips of the branches are gathered, the main stalks produce sideshoots at the leaf-joints, and it seems that the more one gathers the faster it develops. Bears all summer. New Zealand Spinach is truly the perpetual summer Spinach for all. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$2.00.

Salsify or Oyster Plant

Mammoth Sandwich Island. Roots large, long, smooth, tender, and well flavored, resembling fair-sized parsnips. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c.

Spinach

Improved Thick Leaf (Viroflay.) Produces large, thick, bright green crumpled leaves of fine quality; very slow in running to seed; one of the best market sorts. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

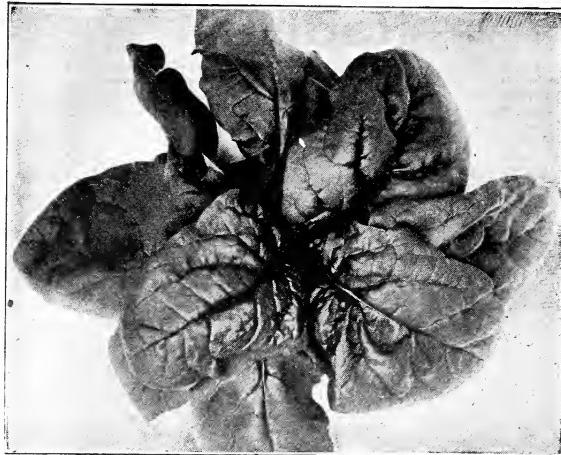
Bloomsdale or Norfolk Savoy. Hardy and well adapted for winter and early spring. Leaves large and wrinkled like a savoy cabbage; tender. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c.

Long Season. All that its name implies. Leaves thick, tender and succulent. Dark green. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

Victoria. Very heavy, broad, deep green, crumpled leaves; of fine, succulent quality; it stands in prime condition long after other varieties have bolted to seed. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

New Zealand Spinach

Unlike any of the above varieties, this forms large, spreading plants which, when fully developed, cover as much as 5 feet of space in all



Spinach.

Sunflower

Mammoth Russian. Gray or striped seeds, heads very large. An excellent food for poultry. Flowers 18 to 20 inches in diameter. Very showy, but mostly grown for the large amount of seed produced. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Squash

Sow the Summer varieties in same manner at same time as early Cucumbers and Melons, in hills 3 to 4 feet apart, and Winter sorts about June 15th in hills 6 to 8 feet apart.

Warted Hubbard. A Hubbard Squash with warted skin. The vines grow strong and produce a large number of Squashes, which are of good size and keep well. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 70c; lb., \$2.25.

Improved Hubbard. A reliable old time variety of Winter Squash. Large size, flesh bright orange color, fine grained, dry and has a good flavor. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 70c; lb., \$2.25.

Vegetable Marrow Long Cream Squash. This vegetable is largely sown by gardeners in England, but may be grown here equally as well, providing a liberal quantity of manure is dug into the hill and plenty of moisture supplied. Fruits are oblong in shape, and should be eaten when less than half grown, at which time the flesh is very tender and may be cooked like ordinary squash or fried like egg plant. The shape is attractive, color creamy white, and skin smooth. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00.

Early White Bush Scallop. A well known Summer variety; flesh tender and delicate. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 50c.

Early Yellow Bush Scallop. Early, flat, deep orange, with smooth rind. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 50c.

Giant Yellow Summer Crookneck. Best sort for Summer; very early, productive. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 50c.

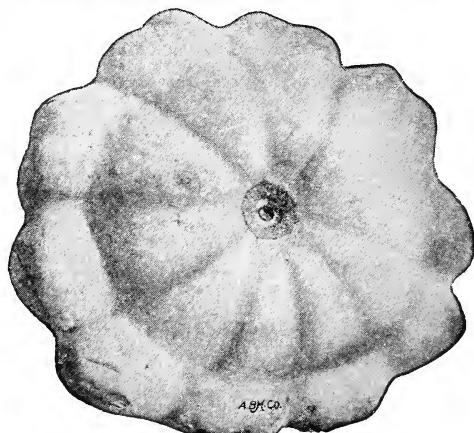
Fordhook. One of the best Winter varieties; bright yellow outside with straw yellow flesh; very productive, wonderful keeper. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Golden Hubbard. Shape same as old-fashioned Hubbard, but skin is rich orange color. The flesh is deep golden yellow. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 50c.

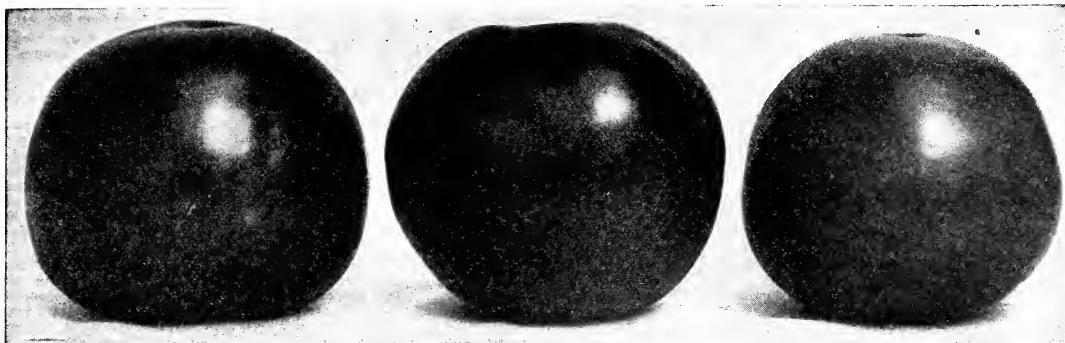
Mammoth Chili. Grows to an immense size. Pkt., 10c; oz., 20c. **Mammoth Yellow or Golden Custard Bush.** Dark rich golden yellow; quality excellent. Pkt. 10c: oz. 20c; $\frac{1}{4}$ lb., 50c.



Winter Squash.



Mammoth Yellow or Golden Custard Bush.



Early Detroit Tomatoes.

Tomato

Early Detroit. This splendid variety, introduced by us in 1909, is the largest and best of the early purplish pink tomatoes. The vines are vigorous and very productive. The fruits are very smooth, uniform in size, nearly globe-shaped, firm, and of excellent quality. Early Detroit is one of the most valuable shipping tomatoes yet introduced. It is also desirable for the home garden and near markets.

Pkt., 5c; oz., 50c; 2 oz., 85c; 1/4 lb., \$1.40; lb., \$5.00.

Early Acme. Rich glossy crimson, tinged with purple; perfectly smooth. Pkt., 5c; 1/2 oz., 30c; oz., 50c; 1/4 lb., \$1.40.

Livingston's Globe. The color of fruit is purplish crimson; ripens to the stem; fruit is large, solid and very high globe. Pkt., 5c; 1/2 oz., 30c; oz., 50c; 1/4 lb., \$1.75.

Dwarf Champion. Upright habit of growth. Very early, fine for small gardens. Fruit smooth, medium in size. Pkt., 5c; 1/2 oz., 30c; oz., 50c; 1/4 lb., \$1.50.

Chalk's Early Jewel. A very early scarlet variety; a heavy cropper; fruit smooth, round and solid. Pkt., 5c; 1/2 oz., 30c; oz., 50c; 1/4 lb., \$1.50.

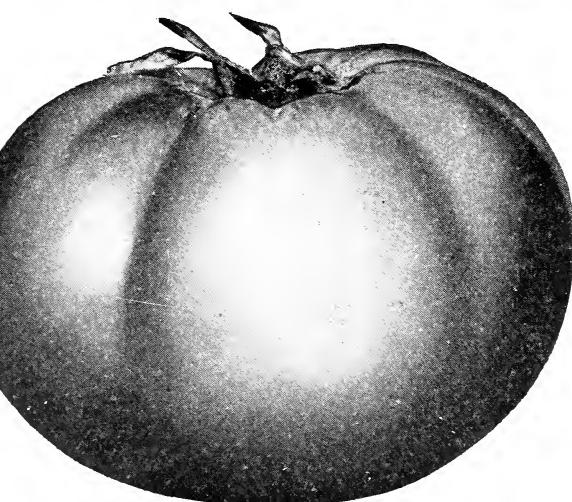
Bonny Best. Is extra early and very prolific. Color deep scarlet. Pkt., 5c; 1/2 oz., 30c; oz., 50c; 1/4 lb., \$1.50.

June Pink. The earliest of all purple tomatoes, distinct and handsome appearance. Pkt., 5c; 1/2 oz., 30c; oz., 50c; 1/4 lb., \$1.50.

Improved Beauty. A decided favorite for either home market or shipping purposes, being early, hardy, strong grower, productive; fruit large, always perfect in shape and excellent in quality. The color is glossy crimson with a tinge of purple. It grows in clusters of 4 to 6 large fruits, retaining its large size late in the season. It is very firm fleshed, with but few seeds. It seldom rots or cracks after a rain. Can be picked quite green, will look well, ripen up nicely and keep perfectly for a week after it is ripe. Pkt., 5c; 1/2 oz., 30c; oz., 50c; 1/4 lb., \$1.40.



Improved Beauty Tomatoes.



The Stone Tomato.

John Baer. Quite similar to Chalk's Early Jewel. Pkt., 5c; 1/2 oz., 30c; oz., 50c; 1/4 lb., \$1.50.

Earliana. Is a very early variety, of uniform size and very productive. The fruit is round, smooth and firm; color bright red. Pkt., 5c; 1/2 oz., 30c; oz., 50c; 1/4 lb., \$1.50.

Golden Queen. About size and form of Beauty; smooth golden yellow. Pkt., 5c; 1/2 oz., 30c; oz., 50c; 1/4 lb., \$1.50.

Ponderosa. Extra large. Purple crimson color; flavor and solidity unequalled. Pkt., 5c; 1/2 oz., 40c; oz., 75c; 1/4 lb., \$2.00.

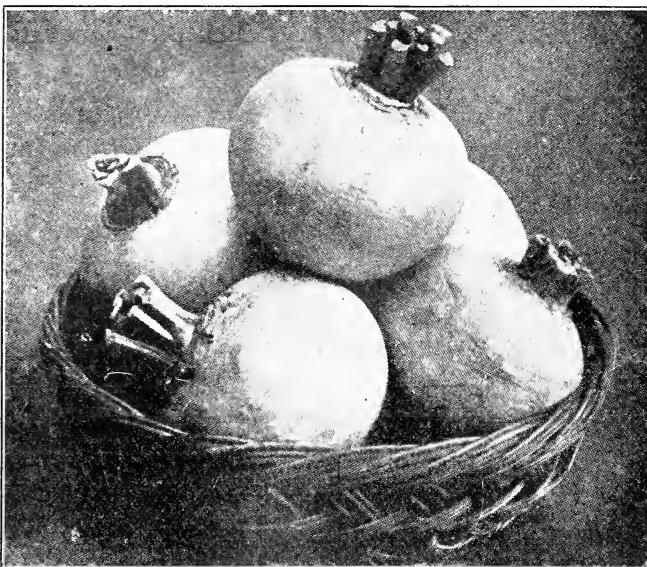
Stone. This is a large, very smooth, bright scarlet Tomato, ripening evenly to the stem, without cracking. The flesh is firm, solid and of excellent quality. Pkt., 5c; 1/2 oz., 30c; oz., 50c; 1/4 lb., \$1.50.

Greenhouse Forcing Tomatoes

Comet. This is a splendid variety for greenhouse. It is very short-jointed, fruiting close up to the stem. The tomatoes are of a good medium size, quite smooth, very solid and of a deep scarlet color. Pkt., 15c; 1/2 oz., 35c. Sutton's Best of All. Sets freely and is an immense cropper. Fruits smooth, good size; deep scarlet. Pkt., 15c; 1/2 oz., 35c.

Small Fruited Tomatoes

Yellow Plum, Yellow Pear, Red Pear, Yellow Cherry, Red Currant, Yellow Peach, Red Cherry, Red Plum, Golden Husk, Purple Husk, used principally for preserving. All 5c per pkt., 1/2 oz., 25c; oz., 40c.



Purple Top White Globe Turnips.



White Egg Turnip.

Anise. Aromatic. Used medicinally. Pkt., 10c; oz., 20c.
 Arnica. (P.) Used medicinally. Pkt., 15c; oz., \$1.00.
 Balm. (P.) Leaves used medicinally. Pkt., 5c; oz., 35c.
 Basil. (A.) Used for flavoring. Pkt., 5c; oz., 35c.
 Chamomile. (A.) Emetic, vermifuge. Pkt., 15c; oz., \$1.00.
 Caraway. (A.) Seeds used in confectionery. Pkt., 5c; oz., 30c.
 Catnip. (P.) Used medicinally. Pkt., 10c; oz., 50c.
 Coriander. (A.) Used in confectionery. Pkt., 5c; oz., 20c.
 Dill. (A.) Flavoring pickles. Pkt., 5c; oz., 20c; 1/4 lb., 50c.
 Fennel. (P.) Used for flavoring fish. Pkt., 5c; oz., 25c.
 Fennel, Florence. (A.) Used for salads. Pkt., 5c; oz., 25c;
 1/4 lb., 80c.



Table Turnips

For early use sow as soon as the ground can be prepared. Sow for succession at intervals of a fortnight, until the last of August.

White Fleshed Turnips

Purple Top White Globe. (See cut.) This is one of the handsomest and most salable Turnips. Very desirable for either home or market gardens. It is a large, rapid growing sort, with globular shaped roots. Flesh is pure white and the top bright purple. On account of its shape it will outyield any other sort and is always a sure cropper. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., \$1.00.

Early White Egg. (See cut.) Matures very quickly and is adapted for either spring or fall sowing. It is egg-shaped, and very smooth with thin skin. The tops are small and roots which grow partly above the ground are of medium size, pure white skin and flesh which is fine grained and sweet. Pkt., 5c; oz., 15c; 1/4 lb., 35c; lb., \$1.10.

Extra White Milan. Extra early white of most delicate flavor and tempting appearance. Pkt., 5c; oz., 15c; 1/4 lb., 50c.

Red Top Strap Leaf. A standard sort extensively grown for private use. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., \$1.00.

Long White or Cow Horn. A quick growing, long variety, flesh fine-grained, and sweet, excellent for table use. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., \$1.00.

Early Purple Top Milan. Earliest of all purple-topped Turnips. Pkt., 5c; oz., 15c; 1/4 lb., 50c.

Yellow Fleshed Turnips

Golden Ball. A rapid grower of excellent flavor, globe-shaped, medium size; bright yellow color, good keeper and a superior table variety or for use in feeding stock. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., \$1.00.

Yellow Aberdeen, Purple Top. Very hardy and productive, good keeper, globe-shaped and fine quality. The Turnips grow to a large size and are valuable for feeding stock. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., \$1.00.

Yellow Stone. One of the best flesh sorts for table. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., \$1.00.

Golden Ball or Orange Jelly. Its beautiful color and fine flesh give it a high place in home gardens. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., \$1.00.

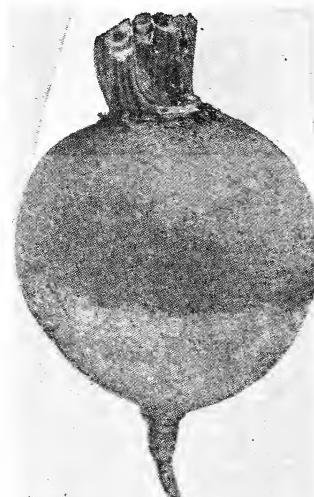
Seven Top. Most excellent for greens. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., \$1.00.

Rutabagas

Sow Rutabagas in June and July in drills two feet apart; thin out to nine inches in row.

Improved American Purple Top. A yellow-fleshed purple top variety, grown either for stock or table. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., \$1.00.

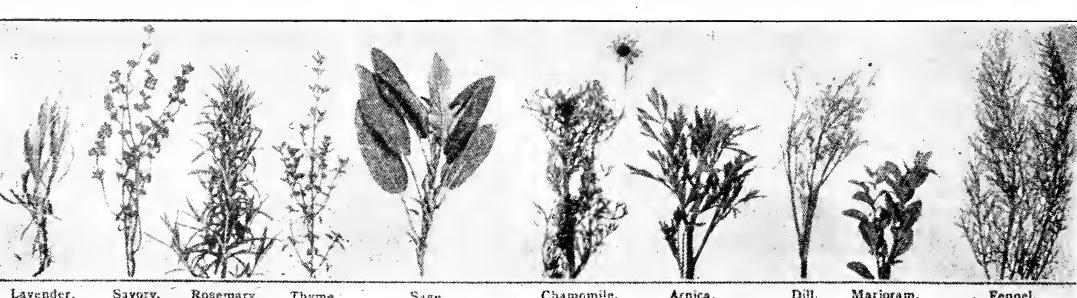
Perfection White. The best white variety offered. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.25.



Purple Top Rutabaga.

Sweet, Pot and Medicinal Herbs

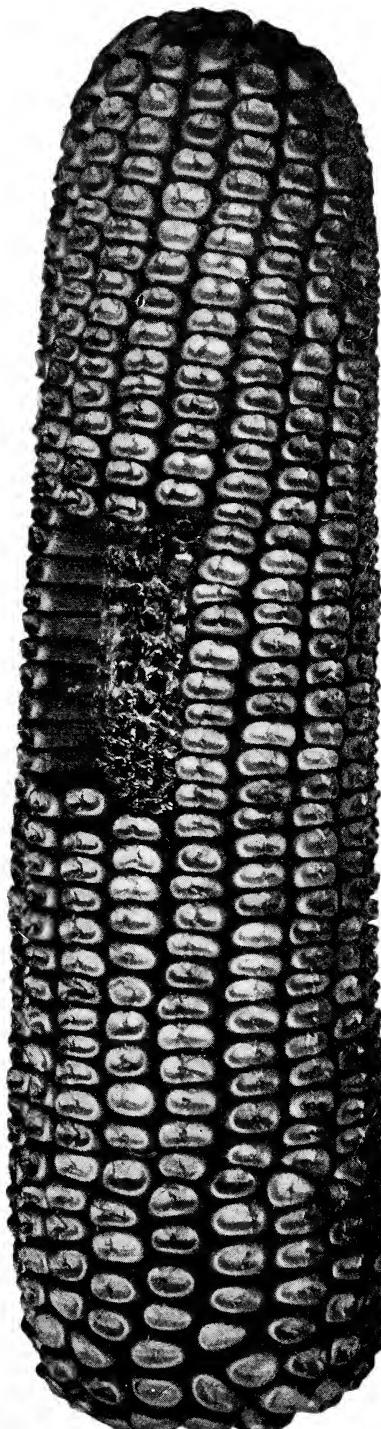
Horehound. (P.) Used medicinally. Pkt., 5c; oz., 30c.
 Lavender. (P.) Valuable for its perfume. Pkt., 10c; oz., 85c.
 Marjoram, Sweet. (P.) For flavoring. Pkt., 10c; oz., 60c.
 Rosemary. (P.) Valuable as a hair wash. Pkt., 5c; oz., 35c.
 Sage. (P.) Used for flavoring. Pkt., 10c; oz., 75c.
 Summer Savory. (A.) For flavoring. Pkt., 10c; oz., 45c; 1/4 lb., \$1.75.
 Sorrel. (P.) Salads and greens. Pkt., 5c; oz., 30c.
 Thyme. (P.) Used for seasoning. Pkt., 10c; oz., 75c.
 Wormwood. Pkt., 10c; 1/2 oz., 35c; oz., 60c.



Lavender. Savory. Rosemary. Thyme. Sage. Chamomile. Arnica. Dill. Marjoram. Fennel.

PLANT THE
BEST

Early Dent Seed Corn

PLANT THE
BEST

Johnson's First Choice Corn.

It costs less than 75 cents an acre to use our carefully selected SEED CORN. Do not consider it wise to risk seed of doubtful ancestry when PEDIGREED SEED is so cheap!

Our crops of Seed Corn are of unusual quality and if you want corn of superior merit send us your order. We offer only stock grown specially for seed purposes from our own pedigreed stock seed. The results will show for themselves at harvest time. If you purchase our seed this spring you can get exceptionally good stock of pure bred, sound, thoroughly matured corn, that can not be surpassed.

We do not sell Ear Seed Corn. Did you ever stop to think that the man who buys ear seed corn pays double what he should for his seed? Every house in the trade that sells ear corn charges a premium for it. In addition, at least 25 per cent of the corn on the cob is tip and butt grain, unfit for seed. In reality, you pay double price for the privilege of seeing the ears before they are shelled. If you cannot trust to selection of the seedsman, don't buy of him. We sort our corn just as carefully as you can.

Johnson's First Choice Yellow Dent

Quick Maturing—Heavy Yielding—Tipped and Butted

This excellent variety possesses so many good points that we offer it as one of the best early yellow Dent corns. The plant is strong, deep rooted and stocky, enabling it to withstand drought in a remarkable manner. The corn matures in 85 days from planting; this makes it very valuable to farmers in the northern tier of states. It is a very heavy yielding variety, nearly all stalks bearing 2 ears, some 3. The ears are medium sized with a very small cob, which is covered from tip to tip with a very beautiful golden yellow dent corn. The ears average from 7 to 9 inches in length. It will yield more pounds of shelled corn per bushel of ears than many of the late varieties.

In addition, it is the finest variety imaginable for second or late planting in more Southerly locations.

Our seed of First Choice has been carefully selected for many years by an expert in Southern Michigan and is, therefore, especially adapted to Northern Ohio and like latitudes. Prices, qt., 25c; $\frac{1}{2}$ pk., 60c; pk., \$1.00; bu., \$4.00.

Early Huron Yellow Dent

Stalks grow about 7 to 8 feet high and set the ears $3\frac{1}{2}$ to 4 feet from the ground. The type is very even. Ears measuring 8 to 10 inches in length, very uniform in size and shape. Color is a clear, light golden. Cobs small, shank easily broken in husking. The seed we offer has been grown in Northern Ohio for many years. Prices, qt., 20c; $\frac{1}{2}$ pk., 60c; pk., \$1.00; bu., \$3.50.

Improved Leaming Yellow Dent

Improved Leaming is medium early. The ears are large with very deep bright yellow kernels. The cob is small. The stalks grow to a medium height and often produce two large ears and make first-class fodder. This corn succeeds well on nearly all soils and will produce large crops of high grade deep yellow corn. One of the best varieties to sow for fodder and ensilage, as well as for grain. Prices, qt., 20c; $\frac{1}{2}$ pk., 60c; pk., \$1.00; bu., \$3.50.

Northern Ohio White Dent

The brightest silver colored Corn. The ears are very large, extra long, medium depth of kernel, extremely firm and solid. It weighs like lead and shells out remarkably well; it matures early, having originated in Northern Ohio. It is very hardy, having a broad kernel, which assures strong germinating power. Prices, qt., 20c; $\frac{1}{2}$ pk., 60c; pk., \$1.00; bu., \$3.50.

White Cap Yellow Dent

It is a strong grower, resists heat and drought; yields large crops on this soil; matures in 90 to 100 days, stalks 8 to 10 feet high, ears 8 to 10 inches long, well filled with 16 to 18 rows, packed solidly on a small red cob. The outer end of the grain is white and deeply dented, balanced amber yellow. The fodder is abundant and of superior quality. Many of our customers who have tried this think it the best variety. Prices, qt., 20c; $\frac{1}{2}$ pk., 60c; pk., \$1.00; bu., \$3.50.

Johnson's "Ohio White" Ensilage

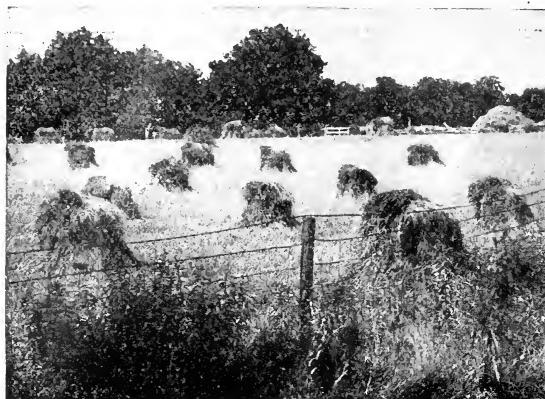
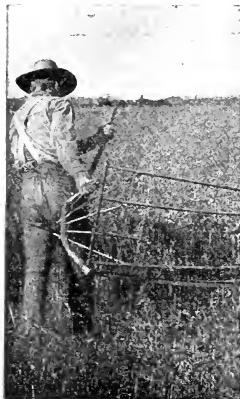
This variety is quite similar to the famous Blue Ridge Ensilage and is the most productive of all ensilage corns. It makes a very large growth, with very abundant fodder, very large ears with broad kernels, yet if planted real early with a normal season, ears will very nearly mature. In fact, we have had some farmers on our best farms here mature the corn so as to save their own seed from same. Our seed is grown in Northern Ohio. It has grown extremely popular with our ensilage customers in northern Ohio because of the fact that it is large and is earlier than most other varieties, under normal conditions. The seed we offer is tipped and butted by hand. Prices, qt., 20c; pk., 60c; $\frac{1}{2}$ bu., \$1.60; bu., \$3.00, f. o. b. Cleveland, bags free.

Red Cob Ensilage

A pure white corn cropping as high as 45 tons of fodder per acre. Sweet, tender and juicy. More nourishing than any other variety. Short joints, abundance of leaves and of tall growth. An excellent silo corn. Prices, bu., \$2.75; bag of $2\frac{1}{2}$ bu. for \$7.25, including grain bag.

JOHNSON'S SELECTED SEED OATS

NORTHERN GROWN



Very Productive Thin Hull

The New "Johnson" Oats originated in Michigan and we have many testimonials attesting to their value. The heads are large and branching and loaded with big, plump, thin-hulled and bright grain.

Its roots run deep into the soil, thus supplying the plant with moisture and food even in a dry season. It stools surprisingly, so that one peck less should be sown per acre. It is plump and heavy, often weighing 36 to 40 lbs. to the bushel. The straw is very stiff and of medium height, holding up its large, well filled heads on the richest ground when other varieties lie flat. The "Johnson" are not side oats. The money you invest in Johnson Oats for seed will yield a profit of 100 to 200 per cent in the increased yield you will get over the common kind you have been planting. The extra cost of the seed of the Johnson over common oats is so light that no one can afford to plant the common varieties. A change of seed once in 2 or 3 years is absolutely essential to growing good crops and when a change is made, get the best variety possible. The Johnson will fill the bill every time. Prices of Choicest Michigan Grown Seed, bu., \$1.75; 5 bu. or more, at \$1.70; 10 bu. at \$1.65 per bu. Grain bags free.

New Johnson Oats

Heavy Grain Stiff Straw



New Sensation Oats

They are noted for vigorous growth and large, white, plump grains, with thin hull, weighing 40 lbs. per bushel with ordinary thresher cleaning. On account of large per cent of meat in the kernels they are well suited for oatmeal and other oat products. Price, choicest Michigan Grown Seed, bu., \$1.50; 5 bu. at \$1.45; 10 bu. at \$1.40. Grain bags free.

Bonanza Oats

This old standard sort is still very popular as it can be depended upon to produce good yields under adverse conditions. Bu., \$1.50; 5 bu. at \$1.45; 10 bu. at \$1.40. Grain bags free.

Silver Mine Oats

This Oat has a reputation as an exceedingly heavy and prolific yielder. It is very hardy and productive and yields beautiful white kernels, which are especially desirable for the manufacture of rolled oats.

The heads are very large in proportion to the stiff, bright, clean straw. The sprangle top heads, although long, are borne low down on the stalk which seems to prevent lodging. The demand for this variety last season exhausted our supply and we suggest early orders to avoid disappointment. Bu., \$1.50; 5 bu. at \$1.45; 10 bu. at \$1.40. Grain bags free.

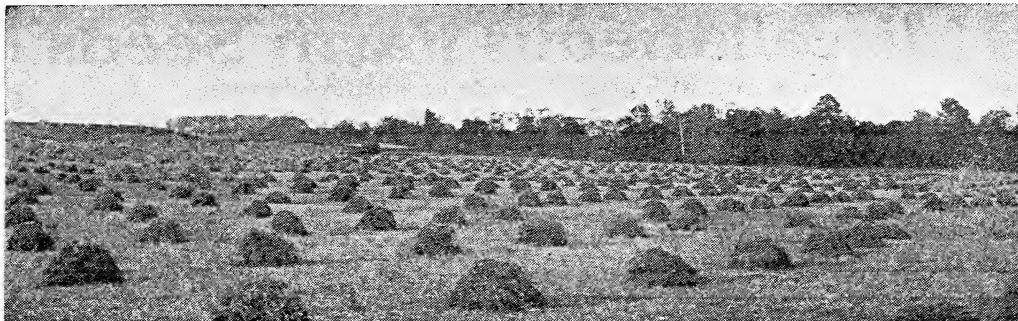
large number of stems, and therefore requires less seed per acre. Choicest Michigan Grown Seed. Bu., \$1.55; 5 bu. at \$1.50; 10 bu. at \$1.45. Grain bags free.

Spring Rye

Spring Rye is highly valued as a catch crop and for sowing with Vetches and Oats for a forage crop. For turning under it is considered a great soil restorer. As a grain crop it is very profitable, always yielding well and prices for rye are now on a very high level. Will make a good crop on soils too poor for wheat. We recommend Spring Rye as a profitable crop in New York, Pennsylvania, Michigan, Wisconsin, Ohio, Indiana, Illinois, and Iowa. Price, 3 lbs., 65c, postpaid. Not postpaid, peck, 65c; bu., \$2.50.

TOP NOTCH QUALITY

Don't forget that Oats are one of our specialties. We handle only Northern Grown Pedigreed stocks and know you will be pleased with what we have to offer. The oat crop is a very important one and too much attention can not be given to it. The trouble has been that not enough attention has been given to proper seed, for the oats have degenerated. It is now necessary to get new seed and build up. No one can expect to make a good crop by sowing the same variety of seed they have sown for the past 20 years. The crop is bound to deteriorate.



Johnson's High Grade Grass and Clover Seed

About prices. It is impossible to quote firm prices at the time our Catalog is printed, owing to the fact that the market fluctuates so much. We will always be pleased, however, to quote by letter if you will drop us a line when you are ready to buy. We handle only the highest grades.

CLOVERS—Highest Grades Only

Prices Vary—Special Quotations on Application.
Alfalfa or Lucerne. (*Medicago sativa*.) Perfect, plump grains, free from weeds, and of strong vitality. No crop is so valuable for permanent meadows as Alfalfa. In ordinary seasons three crops of hay are cut in the North generally, while many seasons produce four cuttings. It stands the dry, hot months of July and August in the corn belt and continues green and growing at this time when grasses are dormant. It is grown everywhere in the United States now, and it is a question of soil rather than climate which determines success or failure with Alfalfa. Actual tests of seed from all over the United States show that the stocks produced in the semi-arid districts give the best results and are hardier than stocks grown farther south or by irrigation in the West. Sow 20 lbs. per acre. Fancy Dakota Seed. Lb., 50c; 5 lbs., \$2.25; 10 lbs., \$4.25. Per bu. (60 lbs.), \$14.50.

Alsike. (*Trifolium hybridum*.) Unequalled for hay and we cannot too strongly recommend it to our customers. It is hardy even in northern Minnesota, and is the only variety which will produce a good crop and not kill out in low, wet land. The hay is finer and better than any other, therefore of special value for sowing with timothy. Sow 15 lbs. per acre. Fancy Wisconsin Grown. Lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.25. Per bu. (60 lbs.), \$15.00.

Bokhara. (*Melilotus alba*.) White Blossom Sweet Clover. Very valuable for soiling. Splendid inoculator for alfalfa. Grows to a height of 3½ to 5 feet. Grown on rich soil, it can be cut as much as three times a season. Good for ensilage and bees. Will last two years if cut before it blooms. Sow 10 to 15 lbs. per acre. Fancy Hulled Seed. Lb., 30c; 5 lbs., \$1.30; 10 lbs., \$2.50.

Crimson or Scarlet Clover. (*Trifolium incarnatum*.) An annual variety producing large crops of green forage. Sow 20 lbs. per acre. Fancy Hulled Seed. Lb., 30c; 5 lbs., \$1.30; 10 lbs., \$2.00. Per bu. (60 lbs.), \$9.00.

Mammoth Red or Pea Vine. Grows much taller than Medium Red Clover. Sow 12 lbs. per acre. Lb., 50c; 5 lbs., \$2.25; 10 lbs., \$4.25. Per bu. (60 lbs.), \$16.50.

Medium Red. (*Trifolium pratense*.) Largely grown throughout the country. Sow 12 lbs. per acre. Lb., 50c; 5 lbs., \$2.25; 10 lbs., \$4.25. Per bu. (60 lbs.), \$16.50.

White Clover. (*Trifolium repens*.) The best variety for lawns. Sow 6 to 8 lbs. per acre. Lb., 75c.

GRASSES—Special Prices On Application.

New Zealand Chewings Fescue. New crop. Per lb., \$1.25. Fancy Seed.

Created Dogtail. (*Cynosurus cristatus*.) An excellent Grass for hard, dry soils. Sow 25 lbs. per acre. Lb., 95c.

Red Top. (*Agrostis vulgaris*.) Suitable for meadow, lawn or pasture. Sow 20 lbs. per acre. Price, solid seed, Lb., 50c.

Hungarian Grass. (*Panicum Germanicum*.) This is a species of Millet, often yielding two or three tons of hay per acre. Sow 40 lbs. per acre. Lb., 10c; 10 lbs., 85c.

Kentucky Blue Grass. (*Poa pratensis*.) Extensively grown in all parts of the country. We handle only the fancy re-cleaned seed. Sow 2 to 3 bu. per acre. Lb., 75c.

Meadow Fescue. (*Festuca pratensis*.) A valuable Grass for permanent pastures. Sow 35 lbs. per acre. Lb., 60c.

Orchard Grass. (*Dactylis glomerata*.) A valuable pasture Grass, adapted for growing in shady, moist places. Sow 20 lbs. per acre. Lb., 35c.

Canadian Blue Grass. (*Poa compressa*.) Thrives well on clay, grows a foot or more in height and yields a great weight of hay. Sow 30 lbs. per acre. Lb., 60c.

Creeping Bent. (*Agrostis stolonifera*.) Succeeds well in moist situation. Lb., \$1.50.

Timothy or Herd Grass. (*Phleum pratense*.) Produces a profitable hay crop in almost any soil. Sow 20 lbs. per acre. Per lb., 25c. Write for sample and present prices.

Wood Meadow Grass. (*Poa memorialis*.) A very productive Grass, adapted for lawns or pastures. Thrives well under trees. Very scarce. Lb., \$1.25.

Perennial Rye. (*Lolium perenne*.) Affords pasture very early in the spring. Sow early in the spring at the rate of 1 to 1½ bushels to the acre. Lb., 35c; 5 lbs., \$1.25.

Rhode Island Bent. (*Agrostis canina*.) A very fine variety for lawn and pasture. Lb., 75c.

Sudan. A new forage plant for hay and silo. Six to ten feet high, makes small leafy stems and is greatly relished by stock. Sow seed when ground has become warm, using 4 to 6 lbs. per acre, in drills 18 to 24 inches apart, and cultivate like corn. Lb., 15c; 5 lbs., 65c; 10 lbs., \$1.25.

Red Fescue. For meadows or pastures on dry, hard or sandy soil. It is very hardy, a true perennial, growing from 1 to 2½ feet high. Per lb., \$1.50.

Hard Fescue. (Bu. 14 lbs.) Emphatically a grass for dry lands, doing well on sandy and shallow siliceous soils. Exceedingly hardy and withstands extremes of heat, cold and drought. Write for prices.

FARMOGERM

The original high-bred nitrogen-gathering bacteria for CLOVERS, COW PEAS, SOJA BEANS, VETCHES, GARDEN PEAS and BEANS, SWEET PEAS. Makes poor soil good to raise the largest and best crops of the above and other legumes. Farmogerm will do it, and also add nitrate to the soil to benefit future crops of the same kind. Write for booklet giving all necessary information.

No. 1. For Alsike, Crimson, Red and White Clover.

No. 2. For Alfalfa.

No. 3. For Canada Peas and Vetches.

No. 4. For Cow Peas and Soja Beans when sown in mixture.

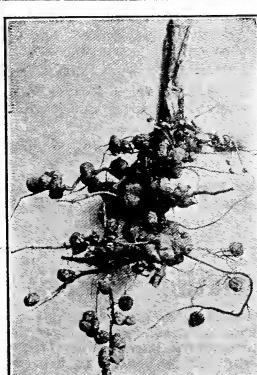
No. 5. For Garden Beans and Peas and Sweet Peas.

FARMOGERM PRICES REDUCED

New scientific methods of manufacture have given lower prices. You cannot now afford to do without FARMOGERM.

A special composite culture is prepared for peas, beans, and sweet peas, ¼-acre size only. You'll get more peas and beans, and larger sweet peas by using this. Ask for No. 5, price 50c.

Farmogerm prices are: 1-acre size, \$1.00; 3-acre size, \$2.50; 12-acre size, \$9.00. Full directions accompany each bottle.



Miscellaneous Farm Seeds

Prices vary with market—write us when ready to buy

Seed Barley

Wisconsin Pedigree Barley. This has been the champion and in a class by itself for some years. Our stock is grown for us in Wisconsin where it originated, and after careful selection we think we have the truest and most uniform stock ever produced. For the last six years it has averaged 35 bushels to the acre. Heads are unusually large and long; grains plump and brighter than any other variety. Bu., \$2.50.

Manshury Barley. We know this to be a first class variety, produces plump grains, and long stiff straw. Heads long and well filled. Bu., \$2.50.

Bonanza Barley. A standard, heavy yielding, six rowed, bearded variety. In stiffness of straw and rust resistance, it is superior to others. Bu., \$2.50.

Soy Beans

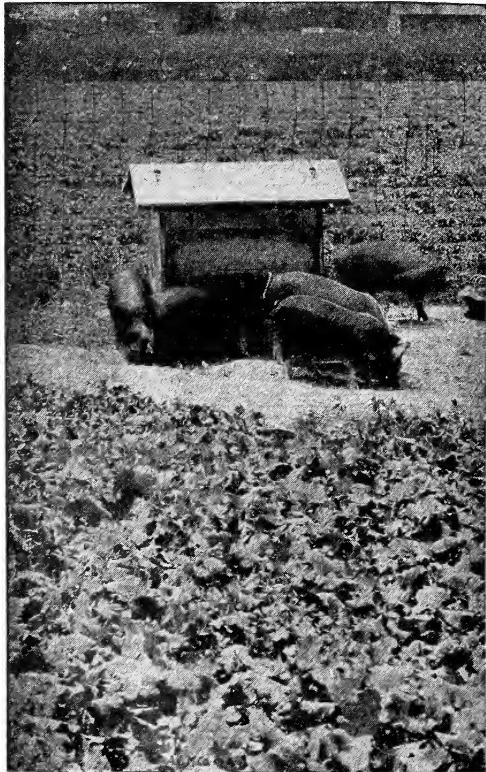
Soy Beans have a double value. First, they are great for feed, and second, they are nitrogen gatherers and enrich the soil wherever grown.

Hollybrook Early Yellow. Makes a quicker growth and matures its crop 2 to 3 weeks earlier than Mammoth Yellow Soja. Erect growing. Bu., \$7.00.

Seed Buckwheat

Japanese. The kernels are at least twice the size of those of any other variety, and of a shape peculiar and distinct from all others. The color of the kernels is also more distinct, being a rich, dark shade of brown. The straw is heavier, very branched, and does not need to be sown as thickly as other kinds. The quality is excellent and the yield is enormous. It is about a week earlier in ripening than the Silver Hull. Bu., \$2.25.

Silver Hull. This improved variety is much better than the old sort. It is in bloom longer, matures sooner, and yields double the quantity per acre. The husk is thinner, the corners less prominent, and the grain of a beautiful light gray color. The flour is said to be better and more nutritious. Bu., \$2.25.



Dwarf Essex Rape.

Dwarf Essex Rape

Rape is one of the most valuable pasture crops which can be grown. While it contains more water than some of the other plants, the dry matter of Rape is worth more as a feed, pound for pound, than that of Alfalfa, Clover or Vetches. This is because Rape is so very high in protein (the muscles, flesh and blood builder) and in ash (which makes the bone). Thus when Rape is pastured by hogs, which are being fattened on Corn, it balances the ration and little additional feed, such as skim milk, is required. Sow about 3 pounds to the acre. Ready for use in 6 weeks. Lb., 20c; 5 lbs., 85c; 10 lbs., \$1.50; 50 lbs., \$6.00.

Winter Vetch

(*Vicia Villosa*)

True Sand or Hairy Vetch

Extensively used as a soil renovator or for dry or green feed in the early spring. It may be sown alone or with winter rye or oats; is perfectly hardy, thriving in every climate, under most adverse conditions. Is very nutritious and live-stock relish it. When sown with rye, etc., it will attain a height of 4 to 5 feet; it requires one-half bushel to sow an acre, or one bushel if sown alone. Sow as early as possible in the fall or summer and get a good growth before cold weather sets in. Lb., 30c; 10 lbs., \$2.75.

Peas

PEAS, Canada Field. Field

Peas should be sown early in April, 2 bushels per acre. If sown with oats for fodder and hay, sow 1½ to 2 bushels each per acre. The Peas should be sown first and plowed under, about 4 inches deep, the oats may then be drilled in. The crop will be ready for cutting when the oats are in the milk and pods formed on the peas. This makes fodder and hay that will double the flow of milk. This crop is also unsurpassed for soiling purposes. Lb., 15c; 10 lbs., \$1.10. Write for price on large lots.



Winter Vetch.

BROOM CORN, Evergreen. Lb., 15c; 10 lbs., \$1.25; 50 lbs., \$5.00.

FLAX, Best Wisconsin. We have some very choice seeds of this, much superior in every way to common flax. Lb., 10c; 5 lbs., 45c.

RYE, Winter. Market price.

Spring. (See page 24.)

SORGHUM, Early Amber. Lb., 10c; 5 lbs., 45c.

KAFFIR CORN, White. Lb., 10c; 10 lbs., 75c.

COW PEAS, Whippoorwill. It is an early variety, and matures in about 70 days. It is not a heavy forage maker, but a very productive variety and largely grown as a soil improver and for pastureage. Trails very little and usually in bush form.

SPELTZ or EMMER. A grain introduced from Russia, adapted to poor and dry soils. Has valuable feeding qualities. Lb., 15c; 10 lbs., \$1.00.

WHEAT, Winter. Hardy varieties for fall sowing. Ask for prices.

WHEAT, Wisconsin Marquis, Spring. A popular spring sort with large well-filled heads; heavy and prolific. Bu., \$3.50. Write for price on large lots.

Farmogerm Inoculating Bacteria

High-bred nitrogen-fixing bacteria; makes poor soil good to raise the biggest and best crops of peas, beans, sweet peas, clover and other legumes. Farmogerm Inoculating Bacteria will do it and add nitrates to the soil to benefit future crops of any kind.. Write for booklet. (See page 25.)

NOVELTIES and SPECIALTIES

Five Fine Asters

American Beauty Rose. $2\frac{1}{2}$ feet. Is similar in type of flower and growth to the well-known Late Branching Asters, but differs in that all the large blossoms are produced on much longer and heavier stems. The flowers are fully double to the last and are a most lovely shade of bright carmine rose, almost identical with the World-Famous American Beauty Rose. Pkt., 15c; $\frac{1}{4}$ oz., 60c.

Lady Roosevelt. This aster will give results under the most trying conditions. A very tall grower. It bears its solid, heavy flowers on stems often reaching 42 inches under ordinary cultivation. Color a bright rose pink, making a beautiful combination when cut with White Perfection. It is a splendid keeping and shipping sort and is not at all subject to disease. The seed we offer is taken from terminal flowers on side branches only. Pkt., 15c; $\frac{1}{8}$ oz., 40c; $\frac{1}{4}$ oz., 65c.

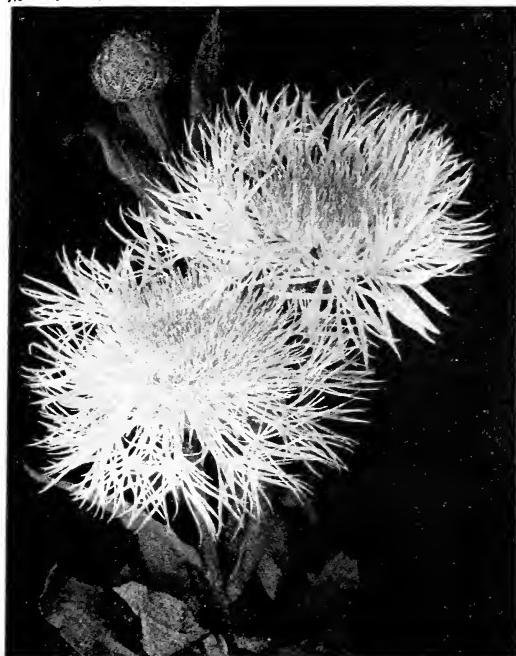
New Red Sensation. Intensely red, being a dark rich garnet or oxblood; branching habit; flowers 3 inches in diameter, borne freely on stems 12 inches long. Grow 18 to 24 inches high, well branched and covered with perfect flowers until the advent of frost. Entirely distinct, being the reddest of all red asters. Pkt., 15c; $\frac{1}{8}$ oz., 35c; $\frac{1}{4}$ oz., 60c.

New White Perfection. A distinct race of upright asters. Flower of branching type, but very strongly whorled, making the center very well covered, so well that it is almost impossible to grow this aster with yellow center. Flower large snow white, stems long, plant very robust. The full double form of the flower makes a very shy production of seed, hence the following high prices. Pkt., 15c; $\frac{1}{8}$ oz., 35c; $\frac{1}{4}$ oz., 60c.

Pink Enchantress. Flowers soft delicate pink; always full double, petals of medium length and very broad. Plant upright in habit and of very vigorous growth; stems long, strong and graceful. Midseason. Pkt., 15c; $\frac{1}{8}$ oz., 50c.



Lady Roosevelt Aster.



Centaurea Americana.

Centaurea Americana

(Basket Flower.) This is a splendid native Centaurea, growing 3 feet high and bearing immense thistle-like blooms of a rosy lavender color. Very showy in the mixed border and splendid for cutting. Flowers often measure from 4 to 5 inches in diameter. Blooms about July 1st and continues until frost. Pkt., 10c; $\frac{1}{4}$ oz., 25c; $\frac{1}{2}$ oz., 40c; oz., 75c.

Blue Lace Flower

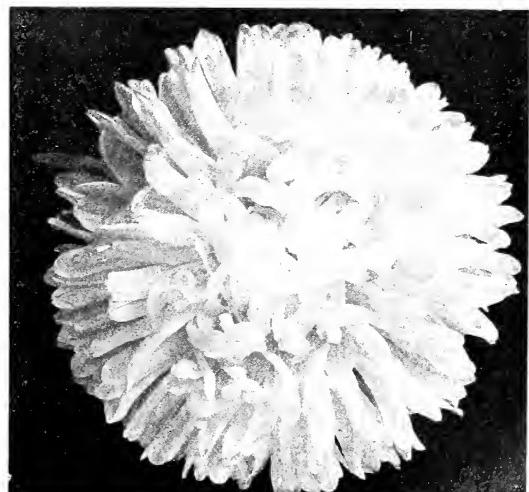
(*Didiscus Coerulea*.) A delightful annual which produces flowers of a sky-blue color. The flower itself ranges from $1\frac{1}{2}$ to 2 inches in diameter, and in formation is similar to the Scabiosa. Should be started under glass or in a seed bed, and then transplanted to its permanent position. It is especially fine for forcing under glass. Half shady position is best. Pkt., 25c; 5 pkts., \$1.00.

Chinese Woolflower (*Celosia Childsii*)

This unique type of *Celosia plumosa* forms—instead of pyramidal panicles of bloom—large globular heads like balls of wool or chenille, and of a rich bright red color, which look as if made out of some silky material. The plants 2 to 3 feet in height, branch freely, each branch terminating with a flowerhead. It continues in flower from early summer until frost, and is very effective for gardens, either massed or grown as individuals. Valuable for cutting as they can be dried and retain their bright color for weeks. Pkt., 15c; $\frac{1}{8}$ oz., 40c.

Giant Double Decorative Dahlia

Our supply of this novelty comes from a famous French hybridizer, who states that it has been saved from a superb collection containing a very varied range of color with flowers frequently 8 inches across, retaining their graceful form notwithstanding their enormous dimensions. Special Mixture. 25c per pkt. of 60 seeds.



White Perfection Aster.

Orange King Calendula

New Forcing Strain

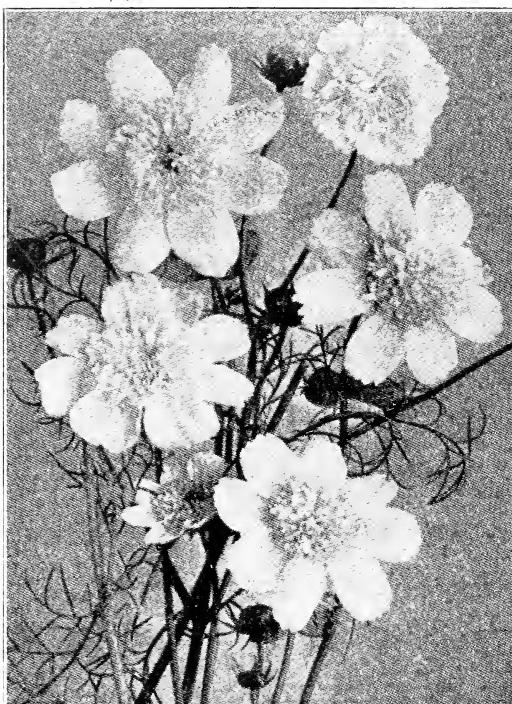
We have perfected and now offer for sale a strain of Orange King that will give excellent satisfaction for forcing. Very large, fully double, rich color, averaging over 3 inches across, and throw no single flowers. Pkt., 10c; $\frac{1}{4}$ oz., 40c; $\frac{1}{2}$ oz., 70c; oz., \$1.25.

Cosmos A New Race of Double, Crowned and Crested

The plants are similar in habit to our famous strain of early flowering Cosmos, and a fair percentage have double crowns, which give the flower a very dainty and exquisite appearance. A large percentage come true from seed, both as to color and doubleness. The single which the strain produces is also very beautiful. Double Crimson. Rich rosy crimson. 20c per pkt. Double Pink. A very pretty rosy pink. 20c per pkt. Double White. Pure glistening white. 20c per pkt. A packet of each color for 50c.



Calendula—New Forcing Orange King.



Cosmos—Double Crowned and Crested.

Eschscholtzia

The Geisha. 1 foot. A new fluted Eschscholtzia of fantastic oriental effect, the petals being prettily crimped, which adds light and shadows to the brilliant coloring—orange red outside, rich golden within. Habit of plant, bushy, compact and upright. Pkt., 15c; $\frac{1}{4}$ oz., 50c.

Single Bedding Petunias

Balcony Blue. A splendid free-flowering type either for bedding or window boxes, hanging baskets, etc.; flowers average 3 inches across, of a rich velvety indigo blue \$0.20

Balcony Rose. Similar to the above, but with flowers of a brilliant rose pink; very effective 20

Balcony White. The pure white form of this splendid type 20

A packet each of the above 3 Balcony Petunias for 50c.



Balcony Petunias.

New Antirrhinum (Snapdragon)

Katherine Morse. A new color and form of flower in Antirrhinum. The color is soft tones of old rose and yellow. The tube is soft old rose and face of flower yellow suffused with old rose. The top of the flower is beautifully waved. The flowers are wider than they are tall and without the face usually showing on lower petal. Plant bears a profusion of large spikes. Pkt., 20c.

Globe Amaranth

"Orange Queen." A flower we strongly recommend. The flowers are globular in form, of a delicate shade of primrose yellow, and of good strong habit; especially fine for cutting. Picked just before flowers are fully opened, hung up and dried, the flowers make a splendid winter bouquet, retaining their shape and color for several years. Pkt. 25c.

Flanders Poppy

"In Flanders fields the poppies blow
Between the crosses row on row."

We are pleased to offer seed of this poppy, made famous in the song and story of the Great War. For color effect there is nothing more brilliant than a bed of these crimson poppies. Pkt., 10c; large pkt., 30c; oz., 75c.



Johnson's Enormous Pansy.

Johnson's Double Giant Zinnias

A special strain of this grand old free and continuous flowering annual, which produces flowers of colossal size, specimens measuring from 5 to 6 inches across being not unusual. Plants are of extremely robust habit, attaining a height of about 3 feet and bearing on long stems numerous semi-globular, mostly very double flowers, all of the largest size, making them of great value in large beds, borders, etc.; grown under favorable conditions they remain in bloom from early summer to late autumn.

We offer 10 of the most wanted colors, separately, as well as a splendid mixture of many colors, as under:

	Pkt.	$\frac{1}{4}$ oz.	\$0.20	\$0.75
Giant Golden Yellow .....			.20	.75
Giant Scarlet .....			.20	.75
Giant Burnt Orange .....			.20	.75
Giant Salmon .....			.20	.75
Giant Flesh .....			.20	.75
Giant Sulphur Yellow .....			.20	.75
Giant White .....			.20	.75
Giant Violet .....			.20	.75
Giant Purple .....			.20	.75
Giant Crimson .....			.20	.75

Collection of a packet of each of the above colors, \$1.00.

Giant Mixed. All colors. Pkt., 20c; $\frac{1}{4}$ oz., 65c; oz., \$2.25.

New Salvias

Bouquet Rose. The outstanding feature of this New Bouquet Rose Salvia is its marvelous evenness of growth. A row of it looks like a well trimmed hedge and is undoubtedly the earliest, freest and most continuous bloomer of all; and, what is still more important, the most uniform in habit of growth; the bushy plants do not grow over 15 inches high, with flowers of the most pleasing rose pink thrown well above the plant, making a total height of about 2 feet. It flowers from very close to the ground to a height of 2 feet. This feature will be appreciated by those who use Scarlet Sage for beds or borders. 20c per pkt.; 6 pkts., \$1.00.

Carmine Pink. This New Salvia, Carmine Pink, is very similar to Bouquet Rose with the exception of color which is a very pretty Carmine Pink. Both of these Salvias are exceptionally nice for borders. Pkt., 20c; 6 pkts., \$1.00.



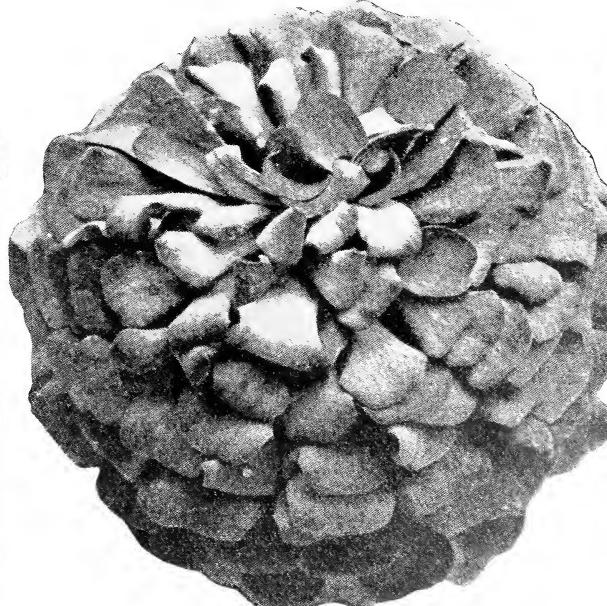
Bouquet Rose Salvia.

Johnson's Enormous Pansy

This strain includes only the very largest type and the range of color is complete and exclusive. It is the finest mixture produced anywhere both as to size and brilliancy of color. Pkt., 50c; 3 pkts., \$1.25.

New Annual Larkspur

Newport Scarlet. This New Larkspur grows about 2 feet high and is magnificently effective in beds and masses. A beautiful, free-flowering, large-spiked, brilliant scarlet variety. Very fine. Pkt., 10c; $\frac{1}{4}$ oz., 25c.



Giant Double Zinnia.

JOHNSON'S SELECTED FLOWER SEEDS

GENERAL LIST

In the following pages we offer a carefully selected list of Flower Seeds, in which no want of the flower-garden has been overlooked, the numerous varieties insuring a wide range of color, form, height, habit and season, thus permitting selection for any and every ornamental purpose.



Antirrhinum.

Amaranthus

	Pkt.
Caudatus. (Love Lies Bleeding.) Crimson.....	.05
Cruentus. (Prince's Feather.) Dark red.....	.05
Finest Mixed .....	.05

Ampelopsis

Veitchii. (Boston Ivy.) A very elegant hardy vine, attaching itself to stone, brick or woodwork. Oz. 40c.	.10
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Antirrhinum (Snapdragon)

Giant White. Large flowering10
Giant Scarlet. Large flowering10
Giant Yellow. Large flowering .....	.10
Giant Mixed. Large flowering .....	.10
Half Dwarf White. Large flowering .....	.10
Half Dwarf Crimson. Large flowering .....	.10
Half Dwarf Yellow. Large flowering .....	.10
Half Dwarf. Mixed. Constant bloomers.....	.10
.....	.10

Aquilegia (Columbine)

Long-Spurred Hybrids. A beautiful strain comprising shades and combinations of blue, white, yellow, orange, scarlet and bright rose pink, in large flowers with long spurs.....	.15
Caerulea. (Rocky Mountain Columbine.) Flowers large, petals white, sepals deep blue, spurs very long; one of the most beautiful.....	.10
Vulgaris. Double varieties mixed. These will give an abundant supply of odd and exceedingly pretty flowers.....	.10
.....	.10

Arctotis (African Daisy)

Grandis. A remarkably handsome annual from Southwest Africa. It forms much-branched bushes 2 to 3 feet high; its flowers are large and showy, being pure white on the upper surface, the reverse of petals pale lilac blue. There are few annual flowers grown in the garden more valuable for cut flower work than the Arctotis. It is easily grown from seed.....	.10
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Arabis (Rock Cress)

Alpina. A hardy perennial. Unequalled for rockeries or edging; withstands the drought.....	.10
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Asparagus

Very graceful plants extensively grown for cutting, the foliage being used in all designs, bouquets, etc.	
Plumosus nanus. ....	.50 seeds, 55c; 100 seeds, \$1.00, .25
Sprengerl. ....	.50 seeds, 80c; 100 seeds, 50c. .15

Abutilon (Flowering Maple)

Tender perennial shrub of easy culture.	Pkt.
Finest Mixed Colors. Excellent for flowering indoors.....	\$6.10

Aconitum (Monk's Hood or Wolfsbane)

Napellus. A hardy perennial, growing in any good garden soil, producing blue and white flowers. Well adapted for planting among shrubbery or in shady corners of the garden: 3 to 5 feet.....	.14 oz. 40c. .10
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Ageratum (Floss Flower)

Suitable for borders, pots, boxes, etc. Annual.	
Little Blue Star. Very fine, free bloomer.....	.10
Blue Perfection. Dwarf; large, deep blue flowers; fine for edging flower beds or walks.....	.14 oz. 30c. .10
Mexicana Blue. A standard sort.....	Oz. 30c. .10
Snow White. Very beautiful .....	.05
Dwarf White. Compact grower, free flowering.....	.05
Little Dorritt. Blue; only 6 inches high.....	.05

Agrostemma

Coronaria Varieties Mixed. Attractive free-flowering, producing bright colored flowers on long, slender stems like a single pink; blooms the first season; fine for cutting. 1 to 2 feet. June-September.....	.10
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Alyssum

Grows anywhere. For beds, borders, etc.	
Maritimum. The common Sweet Alyssum.....	Oz. 25c. .05
Little Gem. Grows compact; pure white. 4 in....	Oz. 60c. .10
Saxatile Compactum. (Basket of Gold.) Showy bright yellow flowers; hardy perennial; blooms the first season if sown early indoors.....	.14 oz. 40c. .10
Compactum Lilacinum (Lilac Queen).....	oz. \$1.00 .10
Snow Carpet (Annual). One of the most valuable dwarf bedding plants of modern introduction. Perfectly hardy. If transplanted a foot apart the plants spread out their side branches along the ground until they meet, becoming covered with pure white flowers, giving the effect of a snow carpet. Flowers through the summer and autumn until cut off by frosts. Ht. 4 inches .....	.oz. .10

Anemone (Windflower)

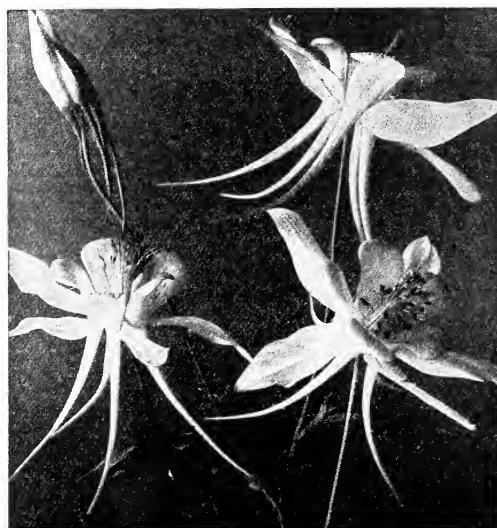
Lovely flowers in many shades of scarlet, blue, purple and white; flowers 2 inches and over in diameter, durable, elegant for cutting.	
Coronaria. Fine mixture .....	.14 oz. 50c. .10
St. Brigid. Produces double and semi-double flowers in a wonderful array of colors.....	.14 oz. 50c. .10
.....	

Anchusa (Alkanet)

Italica, Dropmore Variety. 5 feet. June-July. Beautiful gentian blue flowers; one of the best perennials.....	.15
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Achillea

The Pearl. Hardy white perennial.....	.25
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Aquilegia.

Asters

We make a great specialty of this popular flower, securing our stocks of the most skillful growers only and we confidently recommend them. Aster Plants ready in June.

Semple's Branching Asters

These are especially valuable for cut flowers, because of their handsome flowers and long stems. They bloom two to three weeks later than most sorts. We offer them in eight separate colors, Pure White, Crimson, Lavender, Peach Blossom, Shell Pink, Bright Pink, Rose, and Dark Purple. Pkt. Price, separate colors $\frac{1}{8}$ oz. 35c. \$0.10 Choicest Mixed $\frac{1}{8}$ oz. 30c, $\frac{1}{4}$ oz. 50c. .10

Royal Asters

A new class of American Aster. Its habit of growth is entirely distinct, the stems growing directly from the ground and not on side-shoots from the main stem like other varieties. A medium early bloomer. We offer the following colors: White, Shell Pink, Rose Pink, Lavender, Purple.

Separate colors $\frac{1}{8}$ oz. 35c, $\frac{1}{4}$ oz. 65c. .10 Finest Mixed $\frac{1}{8}$ oz. 35c, $\frac{1}{4}$ oz. 65c. .10

Ostrich Plume

The finest type of the Giant Comet or Ostrich Feather type of Aster. Much larger than the Giant Comet, the petals longer, more twisted, and produced in greater abundance. Borne on long stems, they make cut flowers par excellence. We offer the following colors: White, Delicate Pink, Dark Blue, Light Blue, Crimson.

Separate colors $\frac{1}{8}$ oz. 35c. .10 Finest Mixed $\frac{1}{8}$ oz. 30c. .10



Crego's Giant Comet Aster.

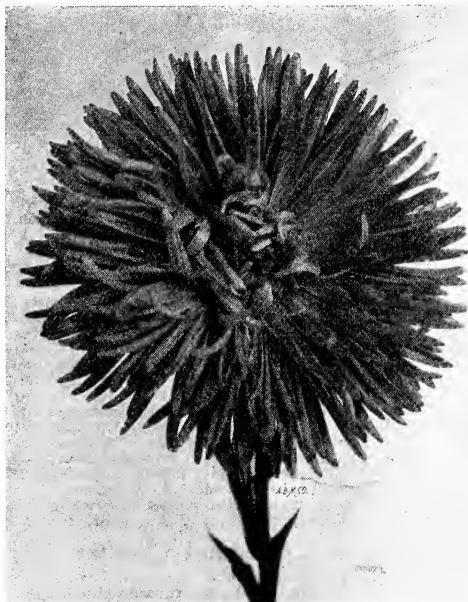
Queen of the Market

This variety is about two weeks earlier than most other sorts. The flowers are quite large, very double, and are valuable for cut flower purposes. The following are the most distinct colors: Pure White, Blush Pink, Bright Pink, Rose, Dark Blue, Lavender, Light Blue and Crimson. Pkt. Price, any color $\frac{1}{8}$ oz. 35c. \$0.10 Mixed Colors. $\frac{1}{8}$ oz. 30c; $\frac{1}{4}$ oz. 50c. .10

King Asters

Of the late branching type. Bloom round, full and very large, and of a soft violet shade; stems long and stiff. August and September, 2 to 2½ feet.

Lavender King.	Soft lavender blue.....	.15
Pink King.	An attractive delicate shell pink.....	.15
Rose King.	A beautiful brilliant rose variety.....	.15
Violet King.	A pleasing soft shade of violet.....	.15
White King.	Pure white .....	.15
Crimson King	Crimson King .....	.15
Finest Mixed	Finest Mixed	$\frac{1}{8}$ oz. 35c. .10



King Aster.

Crego's Giant Comet

Flowers of immense size, often 6 inches across; especially valuable for cutting. Pkt.

White, Royal Purple, Blue, Shell Pink, Rose, Lavender, Crimson. Any color $\frac{1}{8}$ oz. 40c. \$0.10 Finest Mixed $\frac{1}{8}$ oz. 35c. .10

Mikado Asters

Similar to the Crego's Giant but dwarfer in growth, and comes into bloom fully two weeks earlier. Height about 18 inches, of branching habit, and the flowers, borne on long, strong stems, are of colossal size, 5 and 6 inches across being the rule. Pkt. Mikado Pink or Rochester \$0.15 Mikado White. Of purest glistering white15 Mikado Mixed10

Lavender Gem Aster

One of the most beautiful Asters. It is of true Comet type, with large, artistic, loosely-arranged flowers on long, wiry stems and of the most charming shade of lavender imaginable. Begins blooming in July, continuing through August; a lovely variety for cutting. Pkt. 15c. Finest mixed Each, \$0.15

Asterum

A fine new variety, with flowers much resembling a chrysanthemum. Pink, Lavender, and White, Pkt.

Hardy Perennial Aster
Mixed. (Michaelmas Daisies.) Single fall-flowering hardy herbaceous plants, thriving in any good garden soil. If sown early they will flower the first season. 3 feet. Pkt. 10c; $\frac{1}{4}$ oz. 50c.



Semple's Branching Aster.

Balsam (Lady Slipper)

Gives brilliant masses of beautiful flowers for little care. Plants about 2 feet in height; transplanting dwarfs them and renders the flowers more double.

Pkt.

Double White Perfection Pure white; large and full to the center $\frac{1}{8}$ oz. 20c. \$0.10

Double Camellia-flowered. Very large, perfect flowers, camellia-like in form. All colors, mixed $\frac{1}{2}$ oz. 35c. oz. 60c. .10

Begonia (Everblooming Bedding Varieties)

The following are varieties of Begonia Semperflorens, and take rank as bedding plants with Geraniums and Coleus, doing equally well in full sunlight, and surpassing both in positions partially or wholly in shade. They are of sturdy growth, growing about 1 foot high and forming dense bushes, which from May until frost, are completely hidden with flowers. As pot plants for winter flowering they are superb, remaining a sheet of bloom throughout the entire year. The seed being very fine, should be sown on top of box, pressed in soil, not covered.

Gloire de Chatelaine. A beautiful large flowering, everblooming ... Pkt. variety of a lovely soft rose pink \$0.25

Erfordia. Bright, rosy carmine25

Prima Donna. Limpid rose, shading to carmine at the center25

Gracilis. Handsome flowers of a delicate rose color15

Luminosa. Brilliant fiery dark scarlet; very bright25

Salmon Queen. Beautiful either as a potplant or for bedding25

Vernon. Bright orange carmine flowers; deep red foliage10

Semperflorens, Single Mixed. This mixture contains all the colors10

Brachycome (Swan River Daisy)

Free-flowering, dwarf-growing annuals with pretty blue or white flowers $\frac{1}{4}$ oz. 50c. .15

Bellis Perennis (Double Daisy)

Our strain of this flower is extra fine.

Mammoth Mixed $\frac{1}{4}$ oz. 60c. .10

Mammoth. Double pink $\frac{1}{4}$ oz. \$1.25, oz. \$4.50. .10

Mammoth. Double white $\frac{1}{4}$ oz. \$1.25, oz. \$4.50. .10

Browallia

Elatia. Best mixed. Fine for greenhouse10

Canna

(For Roots see page 41.)

Dwarf French Mixed. Dark leaved sorts Oz. 20c. .05

Carnations

Marguerite. Dwarf mixed, Pkt. finest quality. Oz. \$1.00 \$0.10

Double Perpetual. (Chabaud.) Blooms in six months from sowing. Great variety for color; gorgeous flowers15

Cerastium

Tomentosum. A very pretty dwarf, white-leaved edging plant, bearing small white flowers; hardy perennial15

Clarkia

Elegans Double Mixed. A fine mixture, containing all the colors. Pkt. 10c; $\frac{1}{4}$ oz., 25c. Separate Shades. In pink, white and red. Pkt., 15c.

Campanula (Bellflower)

A family containing beautiful border-plants, several varieties beautiful as pot-plants. Mainly hardy biennials and perennials.

Pkt.

Calycanthema. (Cup and Saucer.)

Delightful in form and colors, and elegant subjects for the garden or for pot culture. 2 to 2 $\frac{1}{2}$ feet. We offer Pink, Blue, White or Mixed

..... $\frac{1}{4}$ oz. 60c. \$0.10

Medium. (Canterbury Bell.) Large bell-shaped flowers in many shades. Elegant border or pot-plants. We offer Single White, Dark Blue, Light Blue and Rose in separate colors or Mixed

..... $\frac{1}{4}$ oz. 60c. .10

Carpathica. (Harebell.) Dwarf plants with cup-shaped flowers, suitable for borders, edging, etc. Blue

..... $\frac{1}{4}$ oz. 50c. .15

Calendula (Pot Marigold)

Fine, showy, free-flowering hardy annual. For beds, borders or pots in house.

Meteor. Large double yellow, each petal striped with orange. Oz., 25c.

Prince of Orange. Like Meteor, but darker Oz. 25c.

Orange King. Very large, double, dark orange Oz., 25c.

Double Sulphur. Very large and extremely double flowers of a pleasing sulphur yellow color. Oz. 25c.

The Ball. Introduction of 1922. This new Orange Calendula represents a very great improvement in size, length of stem and fullness of flowers. It has exhibited these superior characteristics uniformly for the past 4 years, not only with the originator but with other growers. We have made arrangements with the introducer, Mr. George J. Ball, of Glen Ellyn, Ill., to offer seed in his packets to our customers at his prices, which are: oz., \$5.00; Trade pkt. of $\frac{1}{4}$ oz.... 3.00

Finest Mixed Oz. 20c. .05



Coreopsis Lanceolata Grandiflora.

Candytuft

Crimson. Rich deep shade... Oz. 60c. \$0.10

Purple. 1 foot Oz. 60c. .10

Carminea. Carmine, 1 ft.... Oz. 60c. .10

Cearna. Flesh colored, 1 ft.. Oz. 60c. .10

Dunnentii. Dark crimson, 1 ft. Oz. 60c. .10

Empress. The finest of all the white varieties; a complete mass of pure white flowers Oz. 50c. .10

White Fragrant. Flowers small, but sweetly scented Oz. 25c. .05

Mixed Colors. A splendid mixture Oz. 25c. .05

Iberis. (Hardy Candytuft.) A beautiful perennial of trailing habit, covered with white flowers in spring

Gibraltaricus Hybrids. A dwarf, compact form, with purple and white flowers; 1 foot $\frac{1}{2}$ oz. 40c. .10

Cardinal Climber

We consider this the most beautiful and distinct annual climber introduced in many years. It is a strong and rapid grower, attaining a height of thirty feet or more, with a beautiful, deeply laciniated foliage, and literally covered with a blaze of circular fiery cardinal red flowers from mid-July till frost. The flowers are about 1 $\frac{1}{2}$ inches in diameter, and are borne in clusters of 5 to 7 blooms each. Our seed is direct from the originator.... $\frac{1}{4}$ oz. \$1.00. .15

Coreopsis

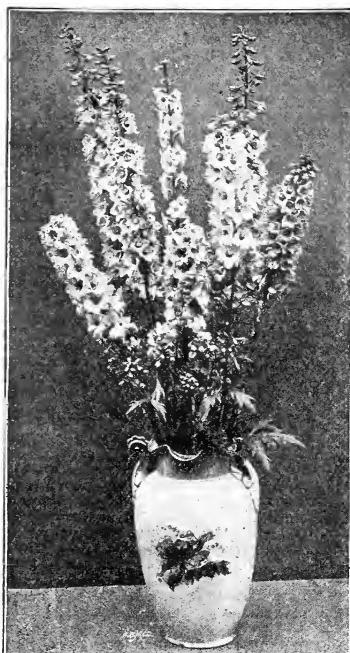
Lanceolata Grandiflora. This is one of the finest of hardy plants, with large, showy bright yellow flowers, produced in the greatest abundance from June till frost. Unsurpassed for cutting $\frac{1}{2}$ oz. 35c. .05

Cleome (Giant Spider Flower)

Gigantea. The finest Cleome we had ever seen. The plants attain a height of 3 $\frac{1}{2}$ feet, well branched, each branch terminated by a large head of bright, rosy crimson flowers $\frac{1}{4}$ oz. 20c. .10



Campanula Medium Canterbury Bells.



Delphinium.

Hardy Garden Pinks

Very desirable for beds, borders, cemetery planting, etc. The flowers are highly prized for their spicy, refreshing odor. Pkt.
Plumarius Cyclops. (Clove Pink.) An exquisite mixture of colors. $\frac{1}{4}$ oz. 35c. \$0.10
Double and Semi-double Pink. (D. plumarius fl. pl.) Double and semi-double flowers in variety.... $\frac{1}{4}$ oz. 50c. .10
Semperflorens. 15 in. Single and double, flowers all spring and summer. Mixed colors $\frac{1}{4}$ oz. 50c. .15
Johnson's Special Mixture. A grand selection of clove pinks of the above Plumarius type and others. $\frac{1}{4}$ oz. 75c. .20

Eryngium - Sea Holly

Handsome ornamental plants for flower and shrubbery borders. Flowers July to September.
Amethystinum. 3 feet. Fine foliage with bluish green shoots, terminating in numerous amethyst blue thistle-like flowers \$0.10

Eupatorium - Thorough Wort

Ageratoides. 2 feet. Pure white ageratum-like flowers; does well in shade..... .10

Everlasting Flowers

Flowers of eternal beauty, those that never fade. Unsurpassed for winter decoration, and when made into bouquets or arrayed in vases, they last for years. Should be cut and dried when in bud and blossom.

Acroclinium Album fl. pl. Graceful; double, rose flowers; 1 foot \$0.10
Ammobium alatum grandiflorum. Clusters of pure white flowers. 2 feet10
Gomphrena globosa Mixed. Flesh, rose, purple and white. Known as Globe Amaranth. Very neat for pots. 1 $\frac{1}{2}$ ft. .10
Helichrysum monstrosum. Double. Splendid mixed. About six colors 1 $\frac{1}{4}$ feet. .10
Rhodanthe Manglesii. Bright rose; charming and particularly neat in pots in the spring. Three plants should be potted together as foliage is small. 1 foot..... .10
Xeranthemum annuum. Very nice for summer cutting or for winter bouquets. Double; White, Rose, and Purple. Mixed10

Eschscholtzia - California Poppy

Very brilliant flowers, produced in great numbers.
Golden West. Very large, lovely yellow flowers, with orange blotch at the base of petals..... Oz. 50c. \$0.10
Californica. Bright yellow..... Oz. 30c. .10
Carmine King. Beautiful carmine rose color. $\frac{1}{2}$ oz. 30c. .10
Single Flowered Mixed. Extra fine..... Oz. 25c. .05
Double-flowered, Mixed. Very good semi-double flowers. Nice for bedding or for massing..... $\frac{1}{4}$ oz. 25c. .10

Delphinium - Hardy Larkspur

Gold Medal Hybrids. This is a mixture of twelve of Blackmore & Langdon's finest varieties grown separately and seed mixed after harvest. The plants are of strong, vigorous habit, with immense spikes from 2 to 3 feet long.	Pkt. $\frac{1}{4}$ oz. 50c. \$0.15
Belladonna. (Everblooming Hardy Larkspur.) This is the freest and most continuous blooming Hardy Larkspur from June until frost. Clear turquoise blue; unequalled for the hardy border..... $\frac{1}{2}$ oz. 75c. .20	
Chinese. (Blue Butterfly.) A distinct and neat variety, growing about 18 inches high, with fine feathery foliage, and producing freely spikes of large blossoms of intense gentian blue..... $\frac{1}{4}$ oz. 30c. .10	
Album. The white-flowered form of the preceding..... $\frac{1}{4}$ oz. 30c. .10	
Elatum. (Bee Larkspur.) Rich blue of various shades with black centers; grows 3 to 5 feet high, according to soil and location.	
Formosum. Beautiful spikes of rich blue flowers, with a white center; 2 $\frac{1}{2}$ feet.	.10
Double Hybrids. Finest double mixed in great variety of charming colors.	
Zalil (<i>Sulphureum</i>). H. P. Long spikes of yellow flowers. 2 ft.....	.15
	.30

DOUBLE ANNUAL VARIETIES.

Double Stock Flowered. These are among the first to flower. Very choice strain. Shell Pink, Dark Blue, Lilac, Sky Blue, Pure White and Mixed. 1 foot	$\frac{1}{4}$ oz. 20c. oz. 60c. .10
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Dianthus - Divine Flower

The rich coloring, with the varied forms and fringing of petals common to many varieties, render them very attractive. They are all useful for bedding and all serviceable for cutting. The Annual Pinks may be sown in autumn or spring. An adornment to every garden.

Double Annual Pinks

China or Indian Pinks. (<i>Dianthus Sinensis</i> .) Flowering from early summer to fall; strong, sturdy growers, suitable for beds and borders. Flowers very double and in unlimited variety of colors borne on long, stiff stems. Finest mixed	$\frac{1}{4}$ oz. 25c. \$0.10
Japanese Pinks. (D. <i>Hedgewigii</i> and varieties.) A beautiful class of sturdy growing plants, 10 to 12 inches high and of the same width; handsomely marbled and mottled flowers in all imaginable colors, 2 inches and over in diameter. Finest mixed	$\frac{1}{4}$ oz. 25c. .10
Diadem Pinks. Very large, showy flowers, beautifully marked and flaked. Splendid mixed	$\frac{1}{4}$ oz. .05

Royal Pink. A beautiful class for cutting; flowers large and exceedingly fragrant, very double and on long stems; colors range from white to rose, and scarlet to blood red.	$\frac{1}{4}$ oz. 50c. .10
Double Fireball. Brilliant scarlet; very compact and floriferous vines; for massing.....	.10
Scoticus. (Double Scotch Pink.) A series of exquisite colors; ours is the finest strain.....	.25

Single Annual Pinks

Crimson Belle. Large, handsome, dark red flowers..	$\frac{1}{4}$ oz. 35c. \$0.10
Eastern Queen. Flowers marbled rose and white..	$\frac{1}{4}$ oz. 35c. .10
Single Royal Pink. Large flowers; petals fringed and crimped. Blood red to white in color. Finest mixed	$\frac{1}{4}$ oz. 40c. .10
"Salmon Queen." The well formed, nicely-fringed flowers are a brilliant salmon color changing into a salmon rose when fading	$\frac{1}{4}$ oz. 50c. .10
Vesuvius. Brilliant geranium red; makes a very effective bed or border	$\frac{1}{4}$ oz. 50c. .10
Single Pinks, Mixed.	Oz. 60c. .10

Dimorphotheca - African Golden Daisy	
Aurantiaca. Glossy orange gold.....	$\frac{1}{4}$ oz. 35c. .10

New Hybrids. White and yellow shades. $\frac{1}{4}$ oz. 40c. .10



Eschscholtzia (California Poppy).

Euphorbia

Showy border plant, easily grown. Beautiful foliage edged and veined with white. Annual. Pkt.
Variagata. (Snow on the Mountain.) Oz. 40c. \$0.10
Heterophylla. (Mexican Fire Plant.) $\frac{1}{4}$ oz. 40c. .10

Fern Spores

Fine Mixed Greenhouse Varieties25

Gloxinia

Johnson's International Mixture. Magnificent house blooming plants, with handsome bell-shaped flowers in a diversity of the richest colors.50

Geum - Avens

Mrs. Bradshaw. Very large double flowers of the brightest scarlet color; an excellent variety.25

Grevillea Robusta - Silk Oak

Fern-like foliage. A fine decorative plant for house and greenhouse; it may be easily grown from seed. Four feet $\frac{1}{4}$ oz. 50c. .10

Godetia

Succeeds best in poor soil. Very free blooming. Finest Mixed Annuals Oz. 25c. .10



Gaillardias.

Grasses - Ornamental

Specimen plants, clumps or entire beds of harmonious varieties are especially interesting. They are always valuable for cutting, and may be preserved and used in combination with Everlasting Flowers for winter bouquets, decorations, etc.

ANNUAL ORNAMENTAL GRASSES

Brizza maxima. 1 $\frac{1}{2}$ feet. Quaking Pkt. Grass. \$0.05
Coxi Lechrymiae. (Job's Tears.) Seeds are used as beads. 1 $\frac{1}{2}$ feet. Oz. 10c. .05
Eragrostis elegans. (Love Grass.) Nice for sweet pea bunching. 1 $\frac{1}{2}$ feet.05
Pennisetum longistylum. Graceful, greenish white plumes05

PERENNIAL ORNAMENTAL GRASSES.

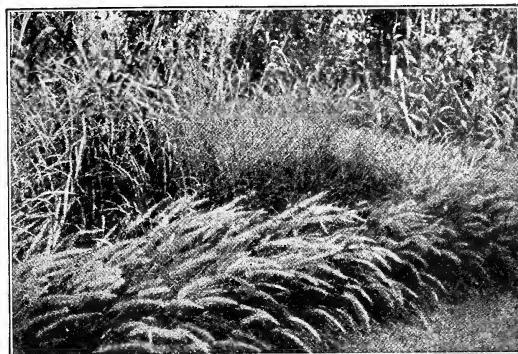
Arundo Donax variegata. (The Variegated Giant Reed.) Fine for groups. 12 ft.10
Gynocephalum argenteum. (Pampas Grass.) Beautiful silvery plumes. 8 to 10 ft.10
Stipa pennata. (Feather Grass.) Silvery white, feathery plumes. 2 feet.06

Heliotrope

Delightfully fragrant. Fine for beds or pots. Half hardy perennial. Finest Mixed. $\frac{1}{4}$ oz. 50c.15

Heuchera - Alum Root

Sanguinea. Long stems of large crimson scarlet flowers. Splendid for cutting.25



Ornamental Grasses.

Gaillardia - Blanket Flower

Both the annual and perennial varieties of Gaillardia are very showy, and free bloomers all summer long until frost; good in any situation and easily grown. The individual flowers are of large size, very durable, and most brilliant in color; fine for bouquets. 2 to 3 ft. Pkt.
Picta Single Mixed. Annual $\frac{1}{4}$ oz. 25c. \$0.05
Picta Double Mixed. Annual $\frac{1}{4}$ oz. 30c. .10
Amblyodon. Perennial. Rich blood red; very effective.10
Grandiflora. Hardy perennial. Single. Choice mixed. $\frac{1}{4}$ oz. 35c. .10
Kelway's Exhibition Hybrids. Entirely distinct. A grand new and improved strain. Flowers of enormous size, borne on stout stems. Choicest mixed. 2 pkts. 25c. .15

Gourds - Ornamental

Besides the curious fruits, Gourds are desirable to cover walls, arbors, etc. Tender annual.
 Small Varieties. Mixed Oz. 15c. \$0.05
 We can also supply any of the following:
Hercules Club; *Dish Rag;* *Dipper;* *Nest Egg.* All at Oz. 15c. .05

Hollyhock - Hardy Perennial

We give particular attention to this most popular flower. Seed sown in June or earlier will flower the following summer.
Allegheny Mammoth Fringed. Very large, flowers finely fringed. Early sown seed will flower the first season. 7 feet. Mixed.10
Double Maroon, *Double Red,* *Double Salmon Rose,* and *Double Yellow.* All at $\frac{1}{4}$ oz. 40c; oz. \$1.25. \$0.10
Newport Pink. Fine, pure pink, double variety, exquisite in shade; flowers very double. $\frac{1}{4}$ oz. 60c.15
Extra Choice Double Mixed. The seed offered under this head has been saved from the finest double flowers only; sure to produce satisfactory results. $\frac{1}{4}$ oz. 40c.10
Single Mixed $\frac{1}{4}$ oz. 25c, oz. 75c.10

Hibiscus - Rose Mallow

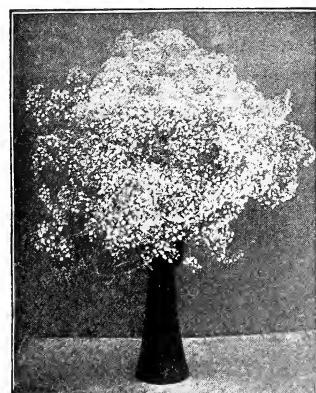
Noble shrub-like plants, with handsome green foliage, bearing throughout summer large bright flowers, from 3 to 5 inches in diameter. Very hardy. Suitable for garden and indoor use when cut.
Crimson Eye. Creamy white flowers, large crimson center. \$0.16
Golden Bowl. Deep cream, with a velvety maroon center.10
Moscheutos. (Rose Mallow.) Very showy pink flowers.10

Mixed Mallow Marvels. Grand assortment10

Gypsophila - Baby's Breath

Annuals and Perennials that will flower the first season. All have graceful panicles of small flowers that are elegant for cut-flower purposes, especially for bouquet work.
Paniculata fl. pl. An extremely vigorous race, producing about 50 per cent of perfectly double flowers, or beautiful pure white. \$0.25
Elegans Grandiflora Alba. Hardy Annual. An improved large-flowered white form. Oz. 30c.10

Paniculata. The perennial variety that is easily grown from seed, equally useful for cutting, and a fine border plant. Branches may be used for winter bouquet. 3 ft. $\frac{1}{4}$ oz. 25c.15
Elegans Rosea. Oz. 75c.10



Gypsophila.

HONESTY. (Moonwort, Satin Flower.) Hardy biennial. Admired for its silvery pouches which are used for house ornaments, as they present a beautiful and rather curious appearance. 3 feet..... $\frac{1}{4}$ oz. 15c. \$0.10

IBERIS. (See Candytuft.)

Ipomoea

Grandiflora. (Moonflower.) Very large, pure white flowers, opening in the evening and on dark, cloudy days. Very rapid grower. Soak seeds, or preferably cut a notch through the hard shell; will germinate in 12 to 15 days.....Oz. 50c.

Rubro-Cærulea Grandiflora. Early flowering. Produces gorgeous sky-blue flowers with rose-colored markings, from 4 to 5 inches across, in great abundance. Rapid grower. If sown in boxes or hotbeds, the young plants may be set out in April or May in a sunny situation, where they will flower from about midsummer until frost. Flowers remain open all day. 15 to 18 feet.....Oz. 25c.

Major. (Tall Morning Glory.) Mixed. Finest colors. 10 feet up.....Oz. 25c.

Imperial Japanese. They are beyond question the handsomest of all Morning Glories. Of the easiest culture; can be sown in the open ground in a warm and settled climate. The foliage is luxuriant, distinct and varied, green, silvery and yellow leaves; many are mottled light and dark green, white and gray. The giant flowers are beyond description; the self or solid colors range from snow white to black purple, an endless number having flowers spotted, marbled, striped, flaked, splashed, etc. See cut.....Oz. 30c.

Brazilian. (Setosa.) As a quick growing vine it has no equal. Flowers large and foliage pleasing. Oz. 30c.

Heavenly Blue. Immense flowers of bright sky blue...

Kochia - Summer Cypress

Trichopylla. (Fine Summer Cypress.) Grows in a compact bush about 3 feet high. Cannot be excelled for a temporary hedge or screen.....Oz. 25c.

Lavatera

The Lavateras or Annual Mallows are showy and effective plants covered during the entire summer with bloom. For large borders and cutting they are very desirable. Splendens Alba. Very large silky pure white flowers.....\$0.10

Splendens Rosea. Very large bright rose flowers.....10

LANTANA. Finest French Mixed. Desirable half hardy perennial.....10

LARKSPUR. (See Delphinium.)

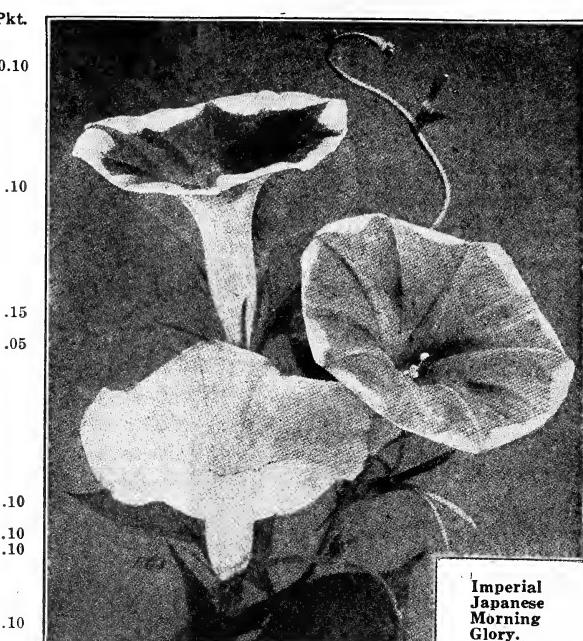
LATHYRUS. Hardy Sweet Peas. Mixed.....Oz. 40c.

LINARIA. (Kewilworth Ivy). Trailing plant for baskets and boxes.

Cymbalaria. Lavender and purple.....10

LINUM Grandiflora rubrum and roseum. (Flax.)

Free flowering and showy. The red and rose-colored forms of annual Flax. Successive sowing will produce a wonderful show throughout the season. 1 foot.....Oz. 20c. .05



Imperial
Japanese
Morning
Glory.

Lobelia

Tender perennials and flower first season. Adapted to edging, borders, baskets, etc.

Pkt.

Crystal Palace Compacta. Fine for bedding..... $\frac{1}{8}$ oz. 40c. \$0.15

Gracilis. Light blue, trailing..... $\frac{1}{8}$ oz. 40c. .10

Lupinus - Sun-Dial

These are old-fashioned favorites that thrive in almost any soil or situation. Some species are extensively used for forage and improvement of poor soils. The taller varieties are useful for the border, and dwarf sorts for bedding.

Polyphyllus or hardy sorts are very effective, spring-flowering plants, producing large spikes of pea-shaped flowers.

Polyphyllus roseus. Rose; immense spikes.....Oz. 50c. \$0.10

Polyphyllus, Blue and White. Mixed. Large spikes; very thrifty.....Oz. 35c. .10

Polyphyllus. Blue.

Polyphyllus Moerheimii. Fine hardy Lupine plants about 3 feet high, of vigorous growth, bearing long spikes of beautiful flowers. In color, a combination of light and dark pink.....Oz. 50c. .10

Perennial Varieties. Choice mixed.....Oz. 25c. .10

Annual Sorts. This class is a great improvement on the old form. Very showy and nice for cutting. 2 feet. Blue, Rose, White, Red and Sky Blue. Each.....Oz. 25c. .10

MixedOz. 20c. .05

Marigold

Splendid for beds or borders; the tall varieties grow about 3 feet high; the dwarf sorts, 18 to 24 inches.

AFRICAN. Tagetes Erecta.

Eldorado. Bright orange flowers, shaded primrose, 3 to 4 inches across. 2 feet..... $\frac{1}{4}$ oz. 20c. \$0.05

Lemon Queen. Very large, double canary yellow flowers. Erect, branching habit. 2 feet..... $\frac{1}{4}$ oz. 25c. .05

Orange Prince. A high-bred tall-growing variety, bearing large, perfect double quilled flowers of a rich deep golden orange color; the finest of all and very showy. $\frac{1}{4}$ oz. 50c. .10

Pride of the Garden. Dwarf and bushy; double, large-sized flowers of various shades of yellow..... $\frac{1}{4}$ oz. 20c. .10

Tall Double Mixed.

Dwarf Double Mixed.

FRENCH. Tagetes Patula.

These are very bright and effective in ribbon lines or for edging beds of tall plants.

Legion of Honor. Single; bright yellow edges with dark crimson spots or blotches; a good bedder. 9 inches high..... $\frac{1}{4}$ oz. 20c. \$0.10

Dwarf Double Mixed.

Tall Double Mixed.



Marigold.

Maurandia

Elegant twining, climbing plants, with handsome foliage and flowers... \$0.10

Mignonette - Reseda Odorata

Large Sweet Scented. Most satisfactory for garden.....	Oz. 15c. \$0.05
Machet. Dwarf; very floriferous and fragrant.....	1/4 oz. 20c. .10
Bismark. Immense red flowers and most delicious odor.....	1/4 oz. 25c. .10
Defiance. Immense spikes which keep until every bud is open.....	1/4 oz. 20c. .10

Mimosa - Sensitive Plant

Pudica. White with pink blush..... .10

Mimulus - Musk Plant

Moschatus. For baskets, etc. Yellow flowers and fragrant foliage..... .10

Matricaria

FEVERFEW. For beds and edges. Half hardy. Dwarf double white... .10
Eximia, Golden Ball. Golden yellow; fine for pots..... .15

Marvel of Peru

FOUR O'CLOCK. We make a specialty of this fine old garden favorite.
Give good soil and sunny location. Splendid mixed hybrids.... Oz. 20c. .05

Myosotis - Forget-me-not

Alpestris Royal Blue. Rich indigo.....	1/4 oz. 40c. .10
Alpestris White. Very fine.....	1/4 oz. 40c. .10
Alpestris Mixed. Various colors.....	1/4 oz. 40c. .10
Dissitiflora. Perennial. Clear blue. Early.....	1/4 oz. 40c. .10
Palustris Semperflorens. Dark blue.....	1/4 oz. 40c. .10
Hybrida, Ruth Fischer. Hardy biennial. Pure forget-me-not blue. Fine for cutting and for hanging baskets. Can be forced successfully and, owing to its extreme hardness, it is valuable for spring bedding in open ground.....	.25

Nicotiana - Tobacco

Affinis. Very showy, white sweet scented flowers..... 1/2 oz. 30c. .10
Sanderae Mixed. Splendid variety of colors..... 1/4 oz. 25c. .10

Nierembergia - Cup Flower

Frutescens. Blooming the first year if sown early. Most desirable for
baskets, etc. 1/4 oz. 20c. .10

Nasturtiums**JOHNSON'S SUPERB DWARF MIXED.**

One of the choicest collections of really high-class varieties
not commonly found in mixtures. It contains many
high-priced named kinds of superb colors. Pkt., 5c; oz., 15c;
2 oz., 25c; 4 oz., 40c; lb., \$1.50.

JOHNSON'S SUPERB TALL MIXED.

This is a fitting companion mixture to Johnson's Superb
Dwarf Collection offered above. This also contains the choicest
colors in greatest variety. Pkt., 5c; oz., 15c; 2 oz., 25c;
4 oz., 40c; lb., \$1.25.

Ivy-Leaved, Mixed. Leaves delicate English-Ivy form; flowers
of delicate fringed formation. Pkt., 5c; oz., 20c.

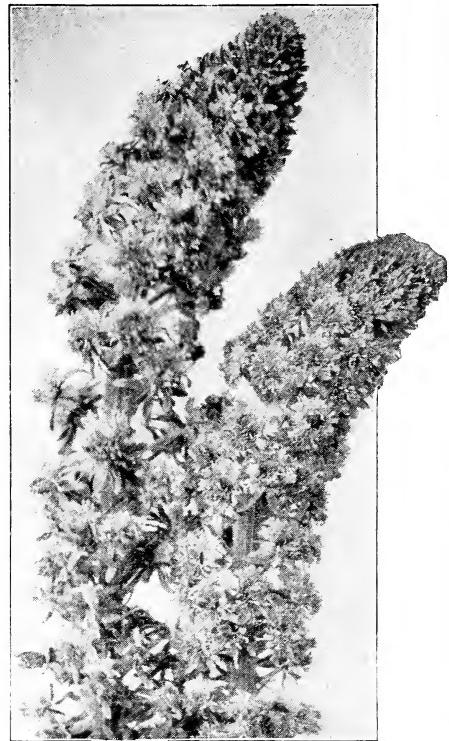
Variegated-Leaved, Mixed. Produce, even without the flowers,
a splendid effect. The flowers, however, are as beautiful
as the preceding class. Pkt., 5c; oz., 20c; 4 oz., 60c.

TALL OR CLIMBING VARIETIES—Separate Colors. Pkt.
Pearl (Moonlight). Whitish..... Oz. 20c. \$0.10

Hemisphaericum. Orange..... Oz. 20c. .10

Yellow (Luteum). Oz. 20c. .10

Dark Crimson Oz. 20c. .10



Mignonette.

DWARF or TOM THUMB VARIETIES—Separate Colors.

Bronze color. Distinct Oz. 25c \$0.10
Golden Cloth. Golden yellow leaves; scarlet flowers..... Oz. 25c. .10

King Theodore. Black, velvety; darkest of all. Oz. 25c. .10

Vesuvius. Salmon-rose; extra large flowers in profusion; fine Oz. 25c. .10

Portulaca

These plants delight in light, dry soil in a sunny situation,
blooming profusely during the hottest weather. The seed
should be sown where wanted, and thinned out as required
6 inches. Pkt.

Singel Finest Mixed. In numerous rich colors. Oz. 50c. .10

Double Mixed. Extra fine quality. 1/4 oz. 75c; oz. \$2.00 .15

Nigella - Love in a Mist, or Devil in the Bush

Damascena. A compact, free flowering plant, with finely cut
foliage, curious looking flowers and seedpods; of easy culture,
growing in any garden soil; hardy annuals; blue and white
mixed; one foot..... Oz. 25c. .10

Miss Jekyll. Cornflower blue blossoms, splendid for cutting. 1/4 oz. 75c. .10

Pansies - Heartsease

The seed that we offer comprises the very finest strains obtainable,
and will be found very superior to the quality usually offered.
No expense has been spared in obtaining the very best strains from
the best French, German and English sources. Pansy plants ready
at proper season.

FINEST SHOW PANSIES. Enormous Flowers.

Johnson's Universal Mixture. This is the finest mixture possible
to make as regards size, texture and colorings..... 1/8 oz. \$1.00, oz. \$7.00 \$0.50

Masterpiece. Giant curled and ruffed Pansies. Very beautiful,
containing the richest combination of colors..... 1/4 oz. 75c. .25

Bugnot's Superb Blotted. Flowers of enormous size. The
shadings comprise tints of red, bronze, and brown not found
in any other mixture..... 1/8 oz. 75c. .25

Cassier's Giant. The largest-flowered class of blotted Pansies. 1/8 oz. 75c. .25

GIANT PANSIES.

Giant Golden Queen. Pure yellow..... 1/4 oz. 75c, oz. \$2.00. .15

Giant Atropurpureum. Deep royal purple..... 1/4 oz. 75c. .15

Giant White. White, with dark eye..... 1/4 oz. 75c. .15

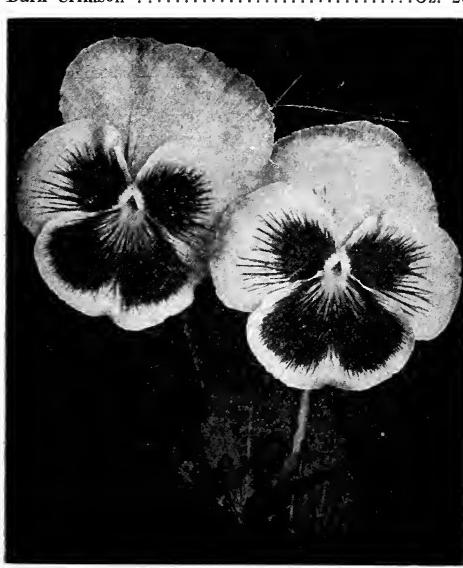
Giant Snowflake. (Snow Queen or Candidissima.) Pure snow
white..... 1/4 oz. 75c. .15

Giant King of the Blacks. Intensely dark..... 1/4 oz. 75c. .10

Giant Striped or Mottled. Curiously striped and named sort in
rainbow tints..... 1/4 oz. 75c. .15

Giant Hortensia Red. Very fine..... 1/4 oz. 75c. .15

Giant Mixed. Extra fine blending of colors. 1/4 oz. 60c, oz. \$2.00. .10



Pansies.



Pyrethrum.

Pyrethrum

Most attractive, hardy perennials, which have become very popular. Valuable border plants with many stems about two feet high, each surmounted with handsome flowers, in the brightest shades of rose, flesh pink, crimson, etc.; in bloom a long time, and are splendid as cut flowers.

Single Hybrids. This mixture contains the very largest flowering and choicest varieties. Pkt., 15c.

Golden Feather. (Aureum.) Dwarf growing variety, with bright yellow foliage; largely used for edgings and ribbon work. Usually treated as an annual. $\frac{3}{4}$ ft. Pkt., 5c; $\frac{1}{4}$ oz., 20c.

Double Roseum Hybrids. Lovely pink shades; splendid for cutting. Pkt., 15c.

Petunias

We pay particular attention to our Petunia stock and are sure it is unexcelled. **GIANTS OF CALIFORNIA.** Large fluffy blossoms, handsomely fringed and ruffled. Very free flowering. White, rose, crimson, black, etc. Mixed ptk., 25c.

SINGLE-FLOWERED PETUNIAS. Large-flowering, Fringed. An unsurpassed mixture from show flowers. Pkt., 25c.

Ruffled Giants. A distinct class with very large, deeply ruffled flowers. Pkt., 25c.

Ruffled and Fringed Giants. Exquisitely fringed and ruffled on the edges, and of immense size, in endless varieties of colors. Pkt., 25c.

Howard's Star. Very free flowering. A bluish pink star on purple ground. Pkt., 10c.

Hybridia, Single. Mixed, ptk., 10c; $\frac{1}{4}$ oz., 40c.

Rosy Morn. Soft carmine pink with white throat. $\frac{1}{8}$ oz., 75c; ptk., 10c.

Purple King. Royal in color and size; a wonderful introduction. Pkt., 25c; 5 ptk.s. for \$1.00.

DOUBLE-FLOWERED PETUNIAS.

Large-Flowering, Double, Fringed, Mixed. A superb mixture of finely fringed varieties in many colors. Pkt., 50c.

MARVELOUS DOUBLE PETUNIAS.

Never surpassed in beauty, size, form, or color, if ever equalled. They are fluted, frilled, ruffled, and pinked in many forms and colors. Pink, Pure White, Violet, Lavender, Mauve, Crimson, plain, and shaded with variegations in all these shades innumerable. Pkt., \$1.00.

Poppies

ANNUAL SORTS.

	Pkt.
Tulip. Single. Bright scarlet	$\frac{1}{2}$ oz. 30c. \$0.05
Shirley. Finest mixed. Very popular	$\frac{1}{2}$ oz. 30c. .10
Mikado. Double. White with crimson stripe.....	Oz. 25c. .05
White Swan. Double; pure white.....	Oz. 25c. .05
Best Single Mixed	Oz. 25c. .05
Nudicaule. Orange red .....	.15
Nudicaule. Album .....	.15
Iceland. Finest mixed	$\frac{1}{4}$ oz. 20c. .10

PERENNIAL.

Oriental. Deep crimson. Very showy	$\frac{1}{4}$ oz. 20c. .10
Oriental. Mixed colors .....	.15

PRIMULAS - Half-Hardy Sorts

Useful for pot culture or for rockeries and borders. While hardy under favorable conditions of soil and moisture, it is prudent to protect them over winter, particularly against saturation of soil by water.

Auricula. A wonderful range of colors. 1 foot..... \$0.25

Elatior. (Polyanthus.) Attractive early spring-flowering variety, either for the house or outdoor culture. Giant Crimson, Giant White and Giant Yellow

.25

Veris Elatior. Choice mixed..... .20

Japonica. New Hybrids. Vigorous, large-leaved and about 18 inches high, throwing a tall flower-stem. Colors vary from blush-white to crimson and maroon, and of many pleasing shades..... .15

Vulgaris. English Primrose. Yellow, fragrant..... .10

Malacoides. A giant Baby Primrose from China. Foliage light green, deeply waved and fringed. 6 to 10 inches; light lilac..... .25

Malacoides Alba. Fine white

.25

GIANT-FLOWERING FRINGED PRIMULAS.

Giant Mixed. Superb mixture..... .50

Fimbriata, Single. Choice mixed..... .25

Fimbriata, Double. Choice mixed..... .50

STAR PRIMULAS. (*Primula Siensis Stellata*) A beautiful new class.

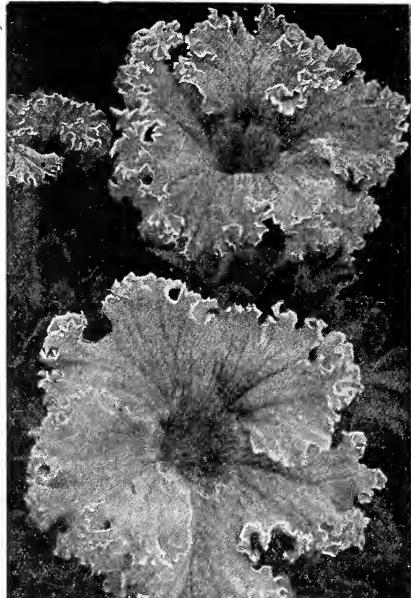
Very fine as pot plants or for cutting. 2 feet. Mixed..... .50

OBCONICA. A good variety for pot-plants for decorative use, blooming from autumn to spring. May also be used outdoors. The Gigantea is a giant type of higher perfection. Each..... .50

Grandiflora Alba. White. **Gigantea Rosea.** Rose.

Grandiflora Lilacina. Lilac. **Gigantea Rubra.** Red.

Gigantea. Carmine. **Gigantea, Mixed.**



Large-Flowering Fringed Petunias.

Annual Phlox

For a splendid mass of color and a constant display, the Phlox Drummondii has every desirable quality for beds, edgings and massings. Seed may be sown in the open ground any time after danger from frost is past.

Bright Rose. Most pleasing color; a profuse bloomer. Pkt., 10c; $\frac{1}{4}$ oz., 40c

Brilliant Scarlet. Is especially showy in large beds or borders. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

Crimson. Popular sort; very brilliant and effective. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

Pure White. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

Yellow. Distinct. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

Prize Mixture of Large Flowering Phlox.

Large ptk., 10c; $\frac{1}{4}$ oz., 45c; $\frac{1}{2}$ oz., 80c. **Phlox Drummondii.** The old-fashioned favorite variety. Mixed, ptk., 10c; $\frac{1}{4}$ oz., 35c; $\frac{1}{2}$ oz., 65c.

Star-Shaped Phlox. Long, pointed petals, which give the flowers a star-like appearance; plants grow compact and dwarf. Mixed, ptk., 5c; $\frac{1}{4}$ oz., 30c.

PERENNIAL PHLOX

This hardy sort makes bushes about 3 feet high, bearing large heads of finely colored flowers.

Pkt. \$0.10

Decussata, Mixed. .10

Decussata, Large flowered hybrids, mixed. .15



Perennial Phlox.

Ricinus - Castor Oil Bean

Magnificent tropical looking plants for lawns or large beds.	
Zanzibarensis. Finest of all. Gigantic leaves of various colors.	Pkt.
1/4 lb. 30c. lb. \$1.00. .10	
Borbonensis. Elegant green foliage.....	Oz. 15c. .10
Cambodgensis. Very dark, almost black.....	Oz. 15c. .10
Finest Mixed	Oz. 10c; 1/4 lb. 25c; lb. 75c. .10

Salpiglossis

Fine Mixed. All colors.....	1/4 oz. 40c. oz. \$1.25 .10
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Salvia

Bonfire. (Clara Bedman.) A salvia of very compact growth, vivid scarlet. Very popular	1/4 oz. 75c. .10
Splendens. The old standard bright scarlet.....	1/4 oz. 50c. .10
Early Dwarf Zurich. Grows only 12 to 15 inches high, with many fine, erect slender spikes to each plant, borne well above its handsome foliage. Color brilliant scarlet; splendid bedding variety; earliest of all .....	.25
Patens. Bright blue flowers of large size; excellent for the border or greenhouse; height, 2 feet .....	.25
Aurea Grandiflora. A hardy perennial variety producing during August and September, spikes of pretty sky-blue flowers; 2 ft..	.25
Farinacea. Light blue flowers in great abundance; good for cutting; forms a neat bush. 3 feet.....	.25

Scabiosa - Mourning Bride

Very desirable for summer cut flowers.	
Fine Mixed. All colors	1/2 oz. 30c. .10

Schizanthus - Butterfly Flower

The sight of a few well-grown plants would induce anyone to grow them. They are simply elegant for decorative use in pots or for cutting.	
Hybrida grandiflora compacta. These are large flowered with wonderfully beautiful color combinations in the same flower. 15 inches high .....	.10
Wiesentenensis. Charming long and profusely blooming hybrids. Excellent for greenhouse culture .....	.25

Smilax

Every florist should grow this, as it is always in demand. Our seed is fresh	Pkt. Oz. 50c. \$0.10
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Stevia

Serrata. Free blooming plants for summer or winter; bearing a profusion of fragrant white flowers; excellent for cutting; 2 feet.....	Oz. 40c. .10
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Stocks - Gilliflower

Cut-and-Come-Again Varieties. Excellent for cutting; very fine for outdoor planting. Blood-Red, Rose, Dark Blue, Princess Alice (pure white), Yellow and mixed.....	1/4 oz. 75c. .10
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Large-Flowering. (Ten-Weeks Stock.) This is a class particularly suited for pot culture, beds or edging. Habit is dwarf and bushy. Height, about 8 inches; 90 per cent double flowers. Brilliant Rose, Blood Red, Purple, Canary-Yellow, Crimson, Light Blue, White and Mixed	1/4 oz. 75c. .10
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Stokesia - Cornflower Aster

This popular hardy perennial bears all summer, large, attractive flowers, resembling semi-double asters; fine for cut-flowers; 2 feet.	
--	--

Cyanæa. Lavender blue; handsome .....	.10
Cyanæa. Mixed .....	.10
Alba. White .....	.15

Sweet William - Dianthus Barbatus

Sprightly hardy Perennial for border and bedding. They flower richly in almost any soil, bearing large heads of richest tints.	
--	--

Pink Beauty. A rich, deep rose shade.....	1/4 oz. 30c. .10
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Scarlet King. (New.) An intensely deep rich, pure scarlet, grand acquisition.....	1/4 oz. 60c. .10
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Mixed. Single, all colors.....	1/4 oz. 20c. .05
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Newport Pink. Color watermelon pink, fragrant, 18 inches high.....	Oz. \$3.00; 1/4 oz. \$1.00. .15
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Sunflower

Miniature. Best mixed	Oz. 20c. .05
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Large Flowered. Fine double mixed.....	Oz. 20c. .05
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Large Russian. Tall mammoth flowered.....	Oz. 10c. .05
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Thunbergia

Rapid growing Annual Climber, with pretty buff, white and orange flowers of various shades, with a dark center or eye. Adapted for vases, hanging baskets, trellises, etc. Mixed.10
--	-----

Veronica - Speedwell

Splendid hardy plants which bear unusually long spikes of small, showy flowers during August and September. One of the best of the late flowering hardy perennials10
--	-----

Vinca

Very handsome, free flowering plants. Very useful.	
--	--

1/4 oz. Pkt. .10	1/4 oz. Pkt. .10
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Rosea, Dark eye... \$0.40 \$0.10	Pure White..... \$0.40 \$0.10
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White, Rose eye... .40 .10	Finest Mixed.... .40 .10
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Salvia Azurea.

Verbena

A very popular bedding plant. The seeds come true to color, and plants are of surprising vigor compared with plants grown from cuttings. They should be planted at least 15 inches apart in good soil. Seeds should be soaked in warm water for an hour or two before sowing; cover about 1/4 inch deep and firm the soil; water very carefully.

Helen Willmott. This new variety is a distinct color in Verbenas, bright salmon rose with white eye..... \$0.25

Mammoth Defiance. Bright, rich scarlet; small leaves. .10

Mammoth Blue Varieties. Showy, distinctive; fine for edging. .10

Mammoth Pink Shades. Many brilliant shades of pink. .10

Mammoth Striped Varieties. Beautiful; rich collection. .10

Mammoth Pure White. Large trusses of purest white. .10

Mammoth Purple. Deep royal purple. .10

Johnson's Mammoth Mixed10

Yucca Filamentosa - Adam's Needle
An attractive greenhouse shrub, grown for the delightful citron scent of its light green leaves..... .15

Citriodora - Lemon-scented Verbena

Splendid hardy plants for shrubbery or lawn groups, with elegant spikes of creamy-white flowers; leaves with thread-like filaments on their edges. 4 feet..... .15

Wallflower

Fine free blooming plants about 18 inches high, of many colors, and delightfully fragrant.

Single Mixed 1/2 oz. 40c. \$0.05

Double Mixed 1/4 oz. 50c. .10

WILD CUCUMBER. (See page 29)

Zinnia

New Giant Double. Flowers very double and of enormous size, attaining a diameter of 4 1/2 to 5 inches. Plants 3 feet. Giant Crimson, Flesh Color, Golden Yellow, Purple, Scarlet, Canary Yellow, Violet, Striped, White and Mixed. Each 1/4 oz. 75c \$0.20

Elegans. This we consider the best Zinnia for general use forming bushy, compact plants not over 2 feet high, and bearing large perfect double flowers in good clear distinct colors..... 1/4 oz. 20c. .10

Curled and Crested Double. Very bright, handsome flowers with curled and curled petals. Fine varieties 1/4 oz. 25c. .10

Double Lilliput. Elegant, small, pompon flowers; very nice for beds, etc. 1 foot. Crimson, Lilac, Gold, Orange, Scarlet and White mixed..... 1/4 oz. 30c. .10

Double Dwarf. Very choice, small flowers, mixed.... 1/4 oz. 20c. .05

Johnson's Selected Spencer Sweet Peas



The varieties listed here are those we consider best, out of a great many now offered on the market. Any variety not listed here we can supply.

Johnson's Grand Spencer Mixture

A liberal planting of this mixture will furnish a most magnificent display of Spencer types, including not only about all sorts now introduced, but many new ones not yet on the market. All shades of color, white, lavender, shades of scarlet, striped, purple and maroon. Gigantic Waved Spencer Type. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.25.

Johnson's Best Grandiflora Mixture

This is a special blend of grandiflora varieties put up by ourselves and can not be excelled for quality and range of color. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.00.

The Spencer or Orchid-flowering sorts bear very large flowers, which are waxy or crinkled at the edges. Just as easy to grow as the common sort. The seeds should be sown early in spring; or, when the ground is not readily prepared in spring, fall sowing may be made, excepting the white-seeded varieties, which should not be sown until soil becomes quite warm and dry; or they may be started early in pots in greenhouse or frame, and planted out as early as the weather permits. White-seeded varieties, which are more tender than the dark-seeded, should be sown in sand to germinate and then transplanted in soil.

Pamphlet on Sweet Pea Culture, Free.

Prices of all Varieties: Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

Apple Blossom Spencer. Bright rose standard with wings of very light primrose, flushed or tinted rose-carmine. Very large Spencer form.

Asta Ohn. Suffused lavender or tinted mauve, sometimes with pinkish tinge. Spencer form, large and wavy.

Blue Picotee. Almost pure white except for a narrow edging of violet blue on the standard and wings. Flowers large and of fine form.

Constance Hinton. A black-seeded white Spencer of large size and splendid form and substance. Flowers open blush, but change to pure white.

Countess Spencer. Bright clear pink, sometimes darker towards the edges; very large, open form; long stems. The first variety introduced of the Spencer type, and still considered one of the best.

Dainty Spencer. White, suffused and edged with rose pink; large Spencer form; picotee edged; very free blooming.

Elfrida Pearson. Flowers very large; color light pink on white ground, beautifully edged and shaded.

Flora Norton. Bright blue, with a slight tint of purple.

Helen Lewis. A rich crimson orange, with wings of orange rose or orange salmon pink. Large, fine Spencer form.

Hercules. Lovely rich pink of giant form and substance. A great improvement on Countess Spencer.

Illuminator. Bright glowing salmon tinged with orange. King Edward Spencer. Brilliant crimson scarlet; very large size, and of open form.

King Manoel. Giant chocolate maroon self.

King White. The form, size, vigor, waviness and purity of color, give pre-eminence to its claim as the best Spencer yet introduced. Seed white.

Miriam Beaver. A leading light cream pink sweet pea. Flowers exceptionally large and wavy, with the standard often duplexed or doubled.

Masterpiece. Clear lavender self, slightly flushed rose on standard.

Mrs. Hugo Dickson. Buff, apricot and rose. Flowers of the largest size, borne on long stems; mostly four blossoms on each stem.

Maud Holmes. Beautiful crimson scarlet flowers, borne on long stems. Will not burn in the hottest sun.

Mrs. C. W. Breadmore. Buff ground, with rosy picotee edge.

Primrose Spencer. One of the best primrose, or cream and ivory sweet peas. Large, wavy petals, clear, distinct color. Seed white.

R. F. Felton. One of the best lavender Spencers, a mauve toned lavender. Splendid exhibition variety.

Johnson's Grandiflora Sweet Peas

All varieties, pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

Black Knight. Deep maroon, shaded black.

Blanche Ferry. Pink and white. Very popular.

Blanche Burpee. Snowy white, long stems.

Henry Eckford. Bright orange, long stems.

King Edward VII. Rich deep scarlet.

Hon. Mrs. E. Kenyon. Lovely yellow.

Navy Blue. Deep violet blue.

Lady Grisel Hamilton. Soft lavender.

Lovely. Standard and wings deep pink, shading to a very light pink at the edges; vigorous grower; four flowers to a stem.

Lottie Eckford. Silvery white flowers, shaded soft lavender.

Spencer Forcing Sorts

Invaluable for growing under glass. They bloom in about three months from time of sowing. Each packet contains 50 seeds.

All varieties, Pkt., 15c; $\frac{1}{2}$ oz., 60c; oz., \$1.00.

Early Morning Star. Deep orange scarlet or flame color in standard, with rich orange pink wings.

Early Pink and White. Same color as the popular late blooming pink and white variety.

Early Heather Bell. A beautiful shade of rich lavender mauve.

Early Songster. Giant early lavender.

Early Yarrawa. Bright rose pink color.

Early Snowflake. One of the best white varieties.

Early Mrs. Spanolin. The finest black-seeded white variety.

Early Mrs. A. A. Skaach. Flowers bright, shell pink.

Pink Beauty. Soft rose pink on white ground.

Summer Flowering Bulbs and Roots

Large Flowering Cannas

For grouping on lawns, or for large beds, no plants are more effective. They bloom soon after planting. We offer the following choice varieties. Foliage green where not noted.

Canna tubers should not be put into the ground until the soil has become warm. They commence blooming in June and continue until late in September. Every shoot bears a flower, and these shoots are being constantly produced throughout the season.

All varieties, except where noted, 20c each; \$2.00 per doz.; \$12.00 per 100. Mailing weight, 3 oz. each; 2 lbs. per doz.

Allemania. Rich red, yellow border. Height, 5 feet.

Duke of Marlboro. An attractive deep brilliant crimson. 4 feet.

Eureka. The best white for massing, very free and of fine habit. 4½ feet.

King Humbert. Bronze foliage. Flowers of a brilliant orange scarlet, with bright red markings. 5 feet.

Yellow King Humbert. Foliage dark green. Flower a deep rich yellow, spotted and blotched with bright red.

Madame Crozy. Vermilion with gold border. 3½ feet.

Queen Charlotte. Rich pomegranate red, bordered with golden yellow. 3 feet.

Richard Wallace. Beautiful golden yellow. 4½ feet.

Shenandoah. Rosy pink flowers. Foliage rich reddish bronze. 4 ft.

Venus. Color soft rosy pink, with a mottled border of creamy yellow. 4 feet.

Wintzer's Colossal. 5 feet. The largest flowered Canna. Vivid scarlet.

Wyoming. Brilliant orange. Purplish bronze foliage. 6 feet.

Caladiums

Esculentum. (Elephant's Ear.) Unequalled as a foliage plant. The leaves are shield-shaped, bright green, often measuring 3 feet or more in length and breadth. Very imposing in appearance when developed. Need very rich soil and an abundance of water.

Extra Large. 11 to 12 inches in circumference. 40c each; \$4.00 per doz.

First Size. 9 to 11 inches in circumference. 30c each; \$2.75 per doz.; \$21.50 per 100.

Second Size. 7 to 9 inches in circumference. 15c each; \$1.50 per doz.; \$10.50 per 100.

Third Size. 5 to 7 inches in circumference. 10c each; 90c per doz.; \$7.50 per 100.

Cinnamon Vine

Hardy climber with dark green foliage, and bearing a profusion of small white flowers of delicious fragrance. 10c each; 90c per doz.

Miscellaneous Climbers

During spring we shall carry an assortment of vines in stock as follows, and will also be able to supply many others not mentioned.

Honeysuckle. Very hardy, deliciously fragrant. 40c each.

Jackmanii Clematis. Rapid grower, flowers abundantly. 60c.

Moonflower. Well known evening bloomer. 15c each.

Dutchman's Pipe. Very hardy. Makes dense shade. \$1.00 each.

Boston Ivy. Very popular hardy vine for brick walls. 50c.



Caladium.

Madeira Vine

A rapid growing climber, bearing graceful racemes of fragrant white flowers; of great value for covering porches and arbors. 15c each; \$1.50 per doz.

Choice Named Herbaceous Peonies

Nobler objects for the mixed border can scarcely be imagined. If left undisturbed they form large stools, and produce magnificent flowers in great profusion.

Festiva Maxima. The finest white in cultivation. Each, 75c. **L'Esperance.** Deep rose with crinkly, white tips; extra large and fine; the earliest large pink. Each, 50c.

Charlemagne. Large, bold, solid-colored rose pink; mid-season. Each, 50c.

Rubra Superba. Best dark bedding peony. Each, 75c. **Jeanne d'Arc.** A choice variety notable for its exquisite perfume and other good cutting qualities. Guards pale lilac pink, with full tufted center of sulphur white. Each, 50 cents.

Tuberoses

After careful selection we have greatly improved the Tuberose in dwarf habit of growth. Yields longer spikes than the old style, and produces large double flowers which are very highly perfumed.

Excelsior. Double Pearl. Selected large bulbs. Price, each, 10c; doz., \$1.00; 100 for \$7.00.



Canna Bed.

Superb Named Gladioli

This is one of the best of the Summer-flowering bulbs. It is a flower anyone can grow, and is lovely enough to satisfy the most exacting. There is no limit to the range of color—pink, scarlet, crimson, yellow, white and a host of other colors.

Nothing is finer for vases than a bunch of Gladioli. The flowers will last for days, and the buds develop into blossoms after being cut.

Write for prices on Gladioli in lots of one thousand or more. We will carry in stock many varieties which we have not room to describe here.

GLADIOLUS CULTURE. Free, on request, with any order.

America. The finest for cutting. Color a beautiful soft flesh pink. Doz. 100 \$0.60 \$4.00

Augusta. One of the most popular white varieties

for cutting. .75 5.00

Baron Hulot. Rich, deep violet blue. 1.25 9.00

Brenchleyensis. Vermilion scarlet. .60 4.50

Chicago White. Pure white with crimson carmine

on midribs of three lower petals. .

Empress of India. Rich velvety dark red with

deeper shadings. 1.00 7.00

Europa. The finest of all white sorts. Large in-

dividual flowers on long, strong spikes. 1.75 2.00

Halley. Delicate salmon rose; immense flower, with a creamy yellow

blotch on the lower petals, forming a perfect and large spike. .75 5.00

Kunderdii Glory. The ruffled Gladioli. Creamy white, striped crimson. 1.25 8.75

Klondyke. Clear yellow, blotched maroon. .75 5.00

Mrs. Francis King. A striking shade of light scarlet or flame color,

a very effective and profitable cut flower variety. .60 4.00

Mrs. Frank Pendleton. A very choice sort with orchid-like flowers of

salmon pink with brilliant deep red blotches in the throat. 1.00 7.00

Niagara. Delicate cream yellow lightly marked with rosy carmine in

the throat. A very choice high grade variety. 1.00 7.00

Panama. Has all the grand good qualities of America, but of a rich

rose pink color. 1.00 7.00



Gladioli
Make
Excellent
Cut Flowers.



Augusta, Baron Hulot, America.

	Doz. 100
Peace. A beautiful and refined pure white lightly touched with carmine on the lower petals	\$1.00 \$7.00
Pink Perfection. A very beautiful apple blossom pink suffused with chamois	1.50 12.00
Principes. Immense wide-open flowers, almost 6 inches across, of a rich, dazzling, scarlet, marked with white in the lower portion, which serves to intensify the brilliancy of the scarlet	1.25 8.00
Schwaben. A fine strong growing variety with massive spikes of clear canary yellow, with small garnet blotch in throat .....	.95 7.25
Sulphur King. This splendid variety is generally conceded to be the finest clear yellow yet introduced. It produces extra long spikes well filled with its attractive flowers which are of good size. 30c each	2.00 12.50
War. Deep blood red, shaded crimson black. Very tall and conspicuous .....	.95 7.50
Willy Wigman. Blush white, dark blotch, fine form.....	.95 7.25
Primulinus Hybrids. This new race is especially appealing for its light and beautiful shades, ranging from the softest primrose to the palest rose. Stems are very slender, but strong, while the flowers are small and closely set together, altogether making a very pleasing appearance, and especially fine for cutting. \$35.00 per 1000.....	.65 4.00
Johnson's Superb Mixed. Composed of the choicest named varieties including also the Vilimorin kinds and Nancceanus sorts. The best possible mixture, and without an equal in America .....	.65 4.00

**Directions for
Top-Dressing with**

**ARCADIAN
*Sulphate of Ammonia***



**For Any Crop That
Needs Nitrogen
JOHNSON SEED STORE
2158-60 East 9th Street
Cleveland, Ohio
No. 81**

ARCADIAN

Sulphate of Ammonia

(Dried and Ground)

FOR years *Sulphate of Ammonia* has been the standby of the fertilizer industry as a source of nitrogen in mixed fertilizers.

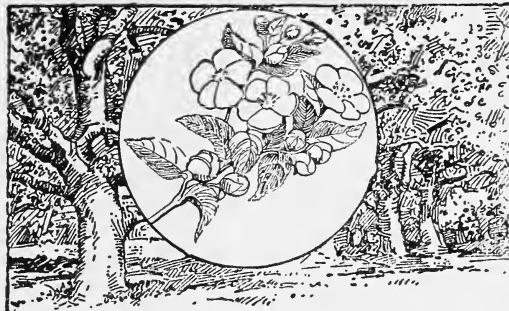
Arcadian Sulphate of Ammonia, the dried and screened grade, has been especially prepared for use as a top-dressing fertilizer. Fine and dry, it can easily be broadcasted by hand, or spread by fertilizer distributing attachments of drills, cultivators and planters. This results in a great saving of labor and in addition insures the even distribution of fertilizer so necessary for the best results. Each rootlet gets its share of plant food.

Arcadian Sulphate of Ammonia is guaranteed to contain 25½% of Ammonia, or 20¾% of Nitrogen, furnishing as much nitrogen in 100 pounds as is contained in 134 pounds of Nitrate of Soda, 296 pounds of Cottonseed Meal, 1,000 pounds of ordinary fertilizer, or 2 tons of stable manure.

Ammonia from *Sulphate of Ammonia* is entirely

*Larger crops
mean bigger
profits*





soluble and quickly available, but does not wash readily from the soil.

SULPHATE OF AMMONIA FOR FRUITS

Sulphate of Ammonia should be applied to fruits two or three weeks before the fruit buds open; early applications giving better results than late. Its use will enable the tree or vine to mature a larger crop of fruit and to develop new fruit buds for the next year's crop.

Sulphate of Ammonia encourages vegetative growth. To avoid excessive growth good judgment must be used in regulating the amount applied, that it may be in keeping with the age of the trees, fertility of the soil, and moisture conditions.

For all fruit trees *Sulphate of Ammonia* may be applied broadcast evenly over the entire orchard, or spread over only the circular area about the tree reached by the feeding roots—this being approximately from two feet from the trunk to a few feet beyond the outer limits of the branches.

Apples. In young orchards, apply, as above, 2

DIRECTIONS FOR TOP-DRESSING



pounds per tree (100 to 150 pounds per acre broadcast), and in mature bearing orchards, 5 pounds per tree. In old sod orchards use 5 to 8 pounds per tree (200 to 300 pounds per acre broadcast).

Peaches. On good soil use 2 to 3 pounds per tree (100 to 125 pounds per acre), and on poorer soils 3 to 6 pounds per tree (125 to 200 pounds per acre broadcast). For young trees use less.

Cherries, Plums and Pears. These trees should receive 1 to 3 pounds per tree. Where pear blight is prevalent, nitrogenous fertilizers must be used with care.

Grapes. Bearing grape vines should be fertilized at the rate of from 100 to 200 pounds per acre. Scatter the *Arcadian Sulphate of Ammonia* between the rows, or apply by means of the cultivator equipped with the fertilizer side-dressing attachment.

Bush Fruits. These small fruits should be fertilized at the rate of from 100 to 200 pounds per acre. Excessive cane growth is undesirable, and where too much growth is likely to be made the nitrogen application should be reduced.

Strawberries. Strawberries should be fer-

WITH ARCADIAN SULPHATE OF AMMONIA

tilized at the rate of from 100 to 200 pounds of *Arcadian* per acre between the rows after the plants are set. After the picking season is over, another similar application should be made, if the bed is to be left for another year. This will insure strong, vigorous plants. Some growers make a practice of top-dressing the fruiting beds early in Spring before growth starts, instead of after the picking season. This practice can be recommended for poor soils.

FOR SIDE-DRESSING VEGETABLES

The following directions give the average amounts used by successful growers. Somewhat larger amounts are often used in intensive market gardening.

Asparagus and Rhubarb. Apply *Arcadian Sulphate of Ammonia* at the rate of 100 to 200 pounds per acre when growth starts. After the cutting season a quick-acting ammoniate is essen-



DIRECTIONS FOR TOP-DRESSING

tial for reviving and invigorating the roots. An additional application of *Sulphate of Ammonia*, 100 to 200 pounds per acre, will prove an excellent side-dressing.

Beans and Peas. A side-dressing of 100 to 200 pounds per acre early in the season will give these crops a quick, vigorous start and result in earlier and larger pickings.

Beets, Carrots and other Root Crops. Broadcast 100 to 200 pounds per acre of *Sulphate of Ammonia* when the soil is being prepared for planting, or apply a side-dressing when the crop is well started.

Cabbage, Cauliflower, Brussels Sprouts, Kale, Collards. These heavy feeders require large amounts of nitrogen. Side-dress young plants with *Sulphate of Ammonia* at the rate of 200 pounds per acre.

Celery. After a liberal fertilization with manure and high grade fertilizer, side-dress with *Sulphate of Ammonia* several times during the season, about 100 pounds per acre each application.

Cucumbers, Melons, Squash, Pumpkins. A side-dressing of *Sulphate of Ammonia*, 100 to 150 pounds per acre, when the runners are several inches long, will promote the rapid growth so desirable early in the season. It is often desirable, especially for cantaloupes, to apply an additional side-dressing of about 100 pounds per acre at the time of the last cultivation, or when the fruits are about the size of an egg.

WITH ARCADIAN SULPHATE OF AMMONIA

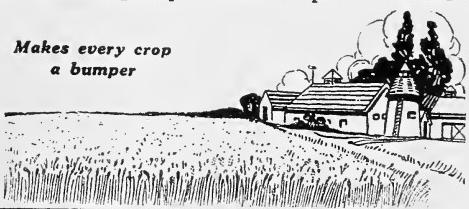
Eggplants, Peppers, Tomatoes. These plants require a liberal supply of quickly available ammonia to produce early crops. Apply 100 to 200 pounds of *Sulphate of Ammonia* per acre a week or two after the plants are set. Eggplants and peppers require somewhat more than tomatoes.

Lettuce. A broadcasting of 200 pounds per acre of *Sulphate of Ammonia* when the soil is being prepared for the crop will supply the quick-acting ammonia needed in early spring. For the fall crop apply a side-dressing of 100 pounds per acre, if the lettuce is not making satisfactory growth.

Onions. *Sulphate of Ammonia* promotes vigorous growth and checks the destructive work of the onion thrips. Apply at the rate of 200 pounds per acre, broadcasted before planting, or as a side-dressing early in the season.

Potatoes, Sweet Potatoes, Yams. Where quickly available ammonia is needed in addition to that applied in the complete fertilizer used for these crops, side-dressing of *Sulphate of Ammonia* at the rate of 100 to 150 pounds per acre will give excellent results, especially in light, sandy soils where leaching of plant food is apt to be consider-

*Makes every crop
a bumper*



DIRECTIONS FOR TOP-DRESSING

able. Ammonia from *Sulphate of Ammonia* does not leach readily and is especially suited to such soils.

Spinach. Two weeks after the seed is sown, broadcast with *Sulphate of Ammonia* at the rate of 200 pounds per acre, or apply 100 to 200 pounds per acre as a top-dressing any time that quickly available ammonia is needed.

Sweet Corn. Side-dress with 100 to 200 pounds per acre of *Sulphate of Ammonia* when the tassels are just appearing, or in the cooler sections of the country, when the stalks are 6 inches to 12 inches high. Such a side-dressing will greatly influence the number, size and quality of the ears produced.

FOR TOP-DRESSING STAPLE FARM CROPS

Apply *Arcadian Sulphate* at the rate of 100 pounds per acre to any crop that needs nitrogen. Larger applications may be made where experience has shown that they will be profitable.

It should be borne in mind that *Arcadian Sulphate* is not offered as a complete fertilizer, but as a source of nitrogen alone.

Timothy. Top-dress your timothy fields early in the spring with 100 pounds of *Arcadian Sulphate of Ammonia* per acre. Apply with the fertilizer attachment of your grain-drill, or any fertilizer distributor.

Small Grains. (Wheat, rye, barley, oats, etc.) Drill in 100 pounds of *Arcadian Sulphate* per acre when seeding-down in the spring. For fall-sown grains apply one-half or one-third this quantity to

WITH ARCADIAN SULPHATE OF AMMONIA

start the growth, and follow by a top-dressing of 100 pounds in the early spring as soon as growth starts. Apply with the fertilizer attachment of your grain-drill.

Corn. Side-dress with 100 pounds per acre of *Arcadian Sulphate of Ammonia* when the corn is two or three feet high; or, in cooler sections of the country, when it is 6 to 12 inches high.

Cotton. Apply 100 pounds *Arcadian Sulphate* per acre at the time of planting, or as a top-dressing early in the growth of the plant.

Tobacco. As usually grown, tobacco is handicapped by lack of nitrogen. It is a heavy feeder. Drill in 150 or 200 pounds *Arcadian Sulphate* per acre when setting out, or apply as top-dressing a little later.

Sugar Beets, Turnips and Mangels. Apply 100 pounds of *Arcadian Sulphate of Ammonia* per acre at the time of planting, or as a side-dressing along the rows when the plants are a few inches high. For sugar beets an equal amount of common salt is sometimes advisable to put on with the *Sulphate of Ammonia* at the time of planting.

FOR THE HOME GARDEN

A heaping tablespoonful of *Sulphate of Ammonia* weighs one ounce. A pint measure holds a pound.

General Garden Use. The directions given in previous pages for side-dressing vegetables and fertilizing fruit trees apply equally well to vegetables and fruits grown in the home garden.

DIRECTIONS FOR TOP-DRESSING

Use *Sulphate of Ammonia* at the rate of 1 pound to every 200 or 300 square feet, raking it into the soil before sowing seed, or scattering it along the rows after the plants are several inches high. One pound of *Sulphate of Ammonia* is sufficient for a ninety-foot row of vegetables; one ounce will fertilize a berry bush. The amounts given for trees in the orchard apply to all fruit trees.

In Solution. A solution of a teaspoonful of *Sulphate of Ammonia* to a gallon of water is fine for watering beds of lettuce, young garden plants, house plants, etc. Sprinkle very tender plants with clear water after this treatment. A stronger solution, one ounce (tablespoonful) to a gallon of water, may be used to water cabbage and tomato plants, etc., when setting them out.

Caution. Do not permit strong solutions or crystals of *Sulphate of Ammonia* to come in contact with the foliage of plants, as burning might result, as in the case of other fertilizers. Do not exceed the quantities given.

FOR FERTILIZING LAWNS

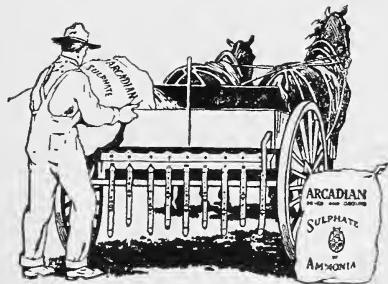
On established sods, 100 pounds per acre of *Arcadian Sulphate of Ammonia* (1 pound to every 300 or 400 square feet) spread evenly over the grass in very early spring will result in luxuriant growth and dark green color. Scatter the fertilizer only when the grass is dry. When seeding new lawns, apply at the same rate, raking the fertilizer into the soil before seeding.

WITH ARCADIAN SULPHATE OF AMMONIA

FOR SHADE TREES AND SHRUBS

Sulphate of Ammonia is an excellent fertilizer for shade trees and shrubs. For small shrubs, use an ounce or two, for large shrubs one-half to one pound, scattered for several feet around the bush. For shade trees apply as for fruit trees, using from 1 to 10 pounds, depending on the size of the trees.

When the shrubs or shade trees are growing on the lawn be very careful in applying the *Sulphate of Ammonia*, so as not to burn the grass. Do not use more than a pound to 150 square feet of lawn. Several applications can be made during the season, so that the shade tree or shrub will get the full amount needed without applying so much at one time as to injure the lawn.



From Bag to Fertilizer Distributor

ARCADIAN

Sulphate of Ammonia

The most concentrated nitrogenous top-dressing on the market. Ammonia 25½% guaranteed.

Nitrogen in a form quickly available but not readily leached from the soil.

Arcadian excels in mechanical condition. It is fine and dry, and easily spread by hand or by drill. The crop producing power of the ammonia is equal to that of any fertilizer.

Arcadian is the fertilizer for your orchard, for top-dressing meadows and grain, and for your truck crops.

A "Made in America" product; it is "The Great American Ammoniate."

Write for pamphlets giving directions for different crops in detail.

The *Barrett* Company

AGRICULTURAL DEPARTMENT

NEW YORK, N. Y.

Medina, O. Berkeley, Calif. Baltimore, Md.

Southern Office: Atlanta, Ga.

Bulletin No. 81

S-57750-1-22

ROSES FOR YOUR GARDEN

We offer a very select list of Dormant Rose Bushes for outdoor planting in Hybrid Tea, Hybrid Perpetual and Hardy Climbing types. The following varieties, each listed in its class, we can especially recommend.

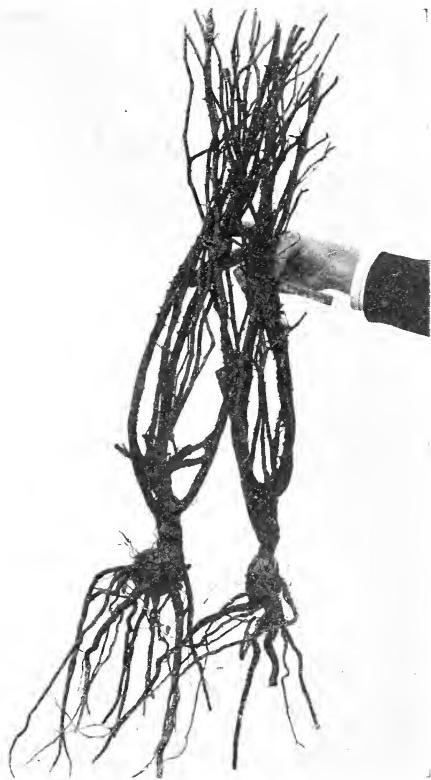
Cultural Directions

When the rose beds are prepared, take care they have good drainage, and that the soil is rich and sweet. Water the roses well after planting. Prune them well; if you do not know how, ask us; we will be glad to tell you the right way. Keep them clean from insects. Bush roses can be set 1½ feet apart, climbing varieties from 4 to 6 feet apart, and standard Roses 3 or more feet apart. Cultivate freely throughout the summer and apply a light top dressing of bone-meal or sheep-manure at least once a month throughout the growing season. Just before the ground freezes, in late November, draw the soil up against the plant in the same manner as you would hill up potatoes, and in December, when the ground is thoroughly frozen, cover with leaves, salt hay, or straw.

The stock offered here is good healthy 2-year-old stock, which will give an abundance of bloom this year. Prices, \$1.00 each; 6 for \$5.00; \$10.00 per doz; 25 for \$20.00; 100 for \$75.00.

Hybrid Tea and Hybrid Perpetual Roses

Mme. Butterfly. A sport from Ophelia, retaining all the good qualities of its parent, but with deeper shadings of apricot and gold on the salmon-pink ground.



Columbia. A very fine shade of pink.

Crusader. A rich, velvety crimson, exceptionally rugged grower.

Ophelia. Light salmon pink, shading to yellow at base.

Killarney White. Snow white, fine for cutting.

Hadley. One of the best for outside bedding. Long stems, flowers in great profusion; scarlet.

Madame Caroline Testout. Light pink; a profuse flowerer.

Frau Karl Druschki. Hardy, vigorous grower; bright green foliage. Largest and best of all the white Roses.

Paul Neyron. Deep, brilliant pink; very double and large.

Mrs. Aaron Ward. Orange copper; free and constant bloomer.

Hardy Climbing and Rambler Roses

Climbing American Beauty. A healthy, vigorous grower. Rose pink flowers of good substance.

Dorothy Perkins. Soft, shell pink. One of the best of the climbing varieties.

Dr. Van Fleet. Flesh pink; splendid for cutting.

Excelsa. Scarlet crimson; borne in large clusters.

DAHLIAS

We have selected the best of each class. Price quoted includes free delivery. Because one Dahlia costs a great deal more than another, does not necessarily mean that it is a better Dahlia, but that it is scarcer. Some of the finest Dahlias are low-priced because they are plentiful.

We offer the following very carefully selected list of Dahlias. After careful trials by our Dahlia expert, we are sure all will be found highly satisfactory in every respect.

Decorative Type

Jack Rose. Brilliant crimson red, similar in shade to the popular "Jack" Rose; perfect for garden decoration and cutting. Each, 35c; doz., \$3.00.

Delice. One of the daintiest; almost transparent, yet of firm texture, perfect form and rich color. A warm tone of liliaceous pink, overlaid with white; the full center shaded a deeper hue and each petal point just nicked with silver. Each, 25c; doz., \$2.50.

Henry Patrick. Very fine white, tall growing, profuse flowerer. Each, 50c.

Bonnie Blue. The nearest approach to a blue Dahlia. Perfect, full, round and short quilled, a very desirable cut flower. Each, 50c; doz., \$4.50.

Eldorado. Rich yellow, tall growing and a free bloomer. Each, 30c; doz., \$3.00.

Eventide. A splendid flower of perfect form and large size, on long, stiff stems, and which for all purposes may be termed a white Dahlia, there being but a faint flush of delicate rose on the edge of the flower. Each, 50c; doz., \$5.00.

Thompson. Very large, full petalled, somewhat recurved; brilliant scarlet. Each, 20c; doz., \$2.00.

William Agnew. Rich, dazzling carmine-red. Each, 35c; doz., \$3.00.

Sylvia. Soft, pleasing mauve-pink, changing to white in the center; a fine cut flower. Each, 35c; doz., \$3.00.

Remington. A fine shade of light pink; free bloomer. Each, 25c; doz., \$2.50.

Black Beauty. Very deep maroon, nearly black. Fine grown with other varieties. Each, 35c; doz., \$3.00.



Cactus Type

Attraction. Entirely distinct. Immense, formal flowers with broad petals coming abruptly to a point; color a beautiful lilac-mauve. Stems are very heavy, and the flowers held rigidly upright. Although of delicate color, this is one of the three most striking varieties we grow \$1.00 each; 6 for \$5.50.

Countess of Lonsdale. A peculiar but pleasing blending of salmon pink and amber, a color difficult to describe. blooms freely under all conditions. Each, 30c; doz., \$3.00.

Kalif. A giant type of impressive character and brilliance. Its evenly disposed rays are broad at base with long tubular quills; the center a noticeably compact tuft. Color vivid turkey red. 50c each; \$4.50 per doz.

Lawine. A beautifully formed flower of large size; pure white, with a suggestion of blush at center. One of the best White Cactus for cutting. 25c each; \$2.50 per doz.

Standard Bearer. Bright, pure scarlet. Flowers large, thick and full to center; of symmetrical and perfectly round form, petals semi-quilled. Extra productive and one of the best red cut flowers. 35c each; \$3.00 per doz.

Sequoia. Large, golden bronze; fine form, long stiff stems. A strong grower and profuse bloomer. One of the best. Each, 35c; doz., \$3.00.

Show Type

Mrs. Wellesley. An old time favorite; creamy white, heavily tipped solferino and crimson. A charming bowl-bouquet subject; unmixed. Each, 20c; doz., \$2.00.

Maude Adams. An early and very free blooming sort, on the order of Susan, but larger and less globular. Very dainty; white, with a slight lavender suffusion inclined to focus at center. Each, 35c; doz., \$3.50.

A. D. Livoni. Warm, rose-pink; perfect flowers, with quilled petals which nearly overlap at the ends. New kinds come and old kinds go, but Livoni can never be spared from a Dahlia list, selected for popular cut flowers. Each, 20c; doz., \$2.00.

Cuban Giant. (Giant.) Flowers 6 to 7 inches in diameter, dark, glowing crimson-shaded maroon. A tall, strong grower with projecting flower stems. Each 30c; doz., \$3.00.

Purple Penelope. Fine purple Penelope (variegated). Each, 20c; doz., \$2.00.

Red Hussar. Tall, bushy, upright; a handsome landscape variety, or for one color bouquets. Of rigidly formal show type; its medium sized flowers gleam like rubies at pleasing intervals, above a setting of very dark green, crinkled foliage; unrivaled among its fellows. Each, 20c; doz., \$2.00.

C. W. Bruton. Clear yellow, large flower; sturdy habit. Each, 25c; doz., \$2.50.

Princess Victoria. Large, round, fully quilled flowers of perfect form and soft, rich yellow color. This and the next variety are dependable, year after year, for a good show of unadulterated yellow. Each, 25c; doz., \$2.50.

Hector. A beautiful shell pink; you should not miss this in your collection. Each, 35c; doz., \$3.00.

Snowball. Blush white, ball-shaped, borne on strong stem. Each, 35c; doz., \$3.00.

Variegated Red and Yellow. Name speaks for itself. Each, 20c; doz., \$2.00.

Single Type

Wild Fire. Growth tall and compact, with ornamental foliage. Flowers are round and close petaled, of fair size; intense scarlet touched at center with gold. Each, 20c; doz., \$2.00.

Fringed Pink Century. Bright pink single flowers of good size, petals charmingly fringed. Each, 50c; doz., \$5.00.

Special Mixed

We are able to offer a mixture of the above-named varieties at a very special price. All these divisions are first-class, but owing to getting mixed in handling, the price is very low. Doz., \$1.50; 25 for \$2.75.

Insecticides and Fungicides

For Insect Pests and Fungous Growths

Liquids and Poisons are not Mailable. Other Insecticides and Fungicides may be Sent at Parcel Post Rates if you Remit the Postage with Your Order.

NOTE—All prices are subject to change.

ANT EXTERMINATOR. For red and black ants. This powder exterminates them. $\frac{1}{4}$ lb., 30c; $\frac{1}{2}$ lb., 50c; 1 lb., 75c.
APHINE. Effective against all soft-bodied and plant-sucking insects such as green, black, white fly, red spider, thrips, mealy bugs, brown and white scale, currant and cabbage worm, etc. Use as a spray or wash, diluting in water. An excellent cleanser for house plants. Pt., 75c; qt., \$1.15; gal., \$3.25.

ARSENATE OF LEAD, POWDER. Has all the advantages of the paste form but goes twice as far and is easier to handle. Can be applied like Paris Green with powder guns. Gaining in favor. $\frac{1}{2}$ lb., 30c; 1 lb., 55c; 5 lbs., \$2.25; 10 lbs., \$4.25; 25 lbs., \$10.00; 50 lbs., \$19.00; 100 lbs., \$38.00.

"BLACK LEAF 40." (Sulphate of Nicotine.) Highly recommended for destroying aphis, thrips, etc., without injury to foliage. Perfectly soluble in water; no clogging of nozzles. 1 oz., 35c.

BORDEAUX MIXTURE, POWDER. In a popular and convenient form for immediate use; can be used dry or with water. $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 5 lbs., \$1.25; 10 lbs., \$2.25; 20 lbs., \$4.25.

COPPER SOLUTION. An excellent spray for mildew, blight and rust on fruit, flowers and vegetables. Should be diluted 100 times with water. Qt., \$1.50; gal., \$4.00.

CUT WORM KILLER. (See Mag-o-tite.) (See Vermine.)

FLOWER OF SULPHUR. (See Sulphur.)

GETS-THERE SOAP. For washing palms. 3 lbs., \$1.00.

GRAPE DUST. Very efficient in destroying mildews and preventing blights, either in greenhouses or in the open. 5 lbs., \$1.00.

FUNGINE. A remedy for mildew rust, bench-rot and other fungi. Does not stain the foliage. Pt., 75c; qt., \$1.15; gal., \$3.50.

HELEBORE. Best Grade, Powdered, White. For rose slugs, currant worms, etc. $\frac{1}{2}$ lb., 35c; 1 lb., 60c; 5 lbs., \$2.50.

INSECT POWDER, RED WING. Non-poisonous. A superior grade; kills all kinds of insects on plants in the garden and in the home. 10c and 25c, in automatic bellows box, postpaid.

KEROSENE EMULSION. An old reliable remedy for use against many soft bodied and sucking insects like plant lice, scale, mealy bug, etc. Kills by contact. Pt., 50c; qt., 85c; gal., \$2.25.

LEMON OIL. Claimed by many to be the best and cheapest insecticide in the market. Used now by nearly all the leading growers. It effectively controls mealy bugs, scale, thrip and red spider. Pt., 60c; qt., \$1.00; $\frac{1}{2}$ gal., \$1.75; gal., \$3.00; 5-gal. keg, \$12.50.

LIME-SULPHUR, POWDERED. Practical form of Lime-Sulphur in concentrated nature. Will readily mix with cold water and make fresh liquid Lime-Sulphur. Twenty to 25 pounds will make 50 gallons liquid for dormant spray of 32 per cent Baume strength. Lb., 45c; 5 lbs., \$1.75; 10 lbs., \$3.00; 25 lbs., \$5.00; 100 lbs., \$17.50.

LIME-SULPHUR SOLUTION, LIQUID. For San Jose and all other scale insects. A fungicide. When used against scale, spray when the tree is dormant in the early spring or late fall. Qt., 50c; 2 qts., 75c; gal., \$1.25; 5 gals., \$3.75; $\frac{1}{4}$ bbl., 25c per gal.; bbl., 23c per gal.

MAG-O-TITE. Protects crops against the ravages of the root maggot and other garden pests; also eradicates earth worms from lawns and putting greens. Not injurious in any way to plant life, but is a valuable stimulant and fertilizer. In powder form, ready for use. Per 2 lbs., 40c; 4 lbs., 65c; 8 lbs., \$1.10.



MELROSINE. Death to rose bugs and all other minor insects and diseases that affect the rose. Used in any spray pump.

$\frac{1}{2}$ pint can	\$0.50
Pint can	1.00
Quart can	1.75
$\frac{1}{2}$ gal. can	3.25
Gallon can	6.00

NICO-FUME TOBACCO PAPER. Consists of a paper saturated with a nicotine solution containing not less than 20 per cent of nicotine. A most effective mode of fumigation for conservatories and greenhouses, leaving no odor in the flowers. Tight can of 24 sheets, \$1.35; 144 sheets, \$5.50; 288 sheets, \$10.00.

NICO-FUME LIQUID. A highly refined solution, containing 40 per cent nicotine, for spraying as a remedy for aphis, thrips, black and white fly. May be used for vaporizing. $\frac{1}{4}$ lb., 75c; 1 lb., \$2.35; 4 lbs., \$8.00; 8 lbs., \$15.00.

HALL'S NICOTINE FUMIGATOR, FOR GREENHOUSES. A simple and effective preparation for fumigating greenhouses, for plant lice and thrips. It is a specially prepared tobacco powder, which has been treated to insure proper burning qualities, and which is saturated with pure Nicotine. 10 lb. tins, \$8.50; $\frac{1}{2}$ lb. tins, \$2.50; 1 lb. tins, \$1.25.

HALL'S NICOTINE SULPHATE. For spraying fruit trees and truck crops—40% Nicotine guaranteed.



Aphids, thrips and similar soft-bodied, sucking insects can be wiped out of the orchard or garden by systematic spraying with Hall's Nicotine Sulphate. 10-lb. tins, \$13.50; 2-lb. tins, \$4.50; $\frac{1}{2}$ lb. tins, \$1.50.

PARIS GREEN. More extensively used than any other poison. Purest of all brands. $\frac{1}{4}$ lb., 20c; $\frac{1}{2}$ lb., 35c; 1 lb., 65c. Special price on large quantities.

PYROX, BOWKER'S. The one best spray for apples, potatoes and general purposes against leaf-eating insects and fungous diseases. This combined insecticide and fungicide is better than Paris Green, Arsenate of Lead, or Bordeaux Mixture, and cheaper to use. It sticks to foliage like paint, in spite of heavy rains. Mix it with cold water, and it is ready to use. Lb., 45c; 5 lbs., \$1.75; 10 lbs., \$3.00; 25 lbs., \$6.75; 50 lbs., \$11.50; 100 lbs., \$19.50.

SCALECIDE. Used for the destruction of the San Jose Scale. Dilute at the rate of 1 gallon Scalecide to 20 gallons of water. Scalecide does not clog nozzles or pump. Qt., 75c; gal., \$1.85; 5 gal., \$7.50; 10 gal., \$12.50; 30 gal. bbl., \$29.50; 50 gal. bbl., \$43.50.

Sulpho Tobacco Soap. An excellent article for the greenhouse or conservatory. Especially good for destroying scale on palms and other plants. Soluble in warm water. 3 oz., 15c; 6 oz., 25c.

SLUG SHOT. Non-poisonous powder. Very effectual in destroying potato bugs, beetles, slugs, worms, caterpillars. Use by dusting on plants. 1 lb. carton, 20c; 5 lbs., 65c; 10 lbs., \$1.25; 25 lbs., \$2.75.

SULPHUR. (Flower of Sulphur.) For mildew on plants, etc. Lb., 12c; 5 lbs., 55c; 10 lbs., 90c; 25 lbs., \$2.00.

TOBACCO DUST. For dusting and fumigating. Best grade. The most effective and cheapest remedy for the fleas on cabbage, etc. Lb., 15c; 5 lbs., 50c; 10 lbs., 80c; 50 lbs., \$2.75; 100 lbs., \$5.00.

TOBACCO STEMS. For fumigating. Valuable as a mulch for rose beds and sweet peas. 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00.

THRIP JUICE. (Hammond's No. 2.) Effective for exterminating aphis, red spider, mealy bug, etc. Pt., 85c; qt., \$1.45; gal., \$4.50.

TREE TANGLEFOOT. A paste preparation for painting around the trunks of trees, in the form of a band, and insects and other crawling pests cannot get over it. Lb., 50c; 5 lb. cans, \$2.25; 10 lb. cans, \$4.25; 20 lb. cans, \$8.00.

TREE BANDS. Does all that the Tanglefoot will do, is more economical and is not unsightly. 25 foot roll for \$1.25; 100 foot roll for \$6.75.

VERMINE. For all soil vermin, such as cut, eel, wire, and grub worms, slugs, root lice, maggots and ants. Pt., 65c; qt., \$1.00; gal., \$3.00.

WORM ERADICATOR, READE'S. For removing worms from greenhouses, lawns, flower pots, vases, etc., without damage to the plants. Bottles, 50c and \$1.00; gal., \$4.00.

WHALE or FISH OIL SOAP. For destroying and preventing insects on plants, trees, vines, etc. Very easily applied and very effective. Lb., 35c; 5 lb. can, \$1.50.

X. L. ALL COMPOUND. For spraying very delicate plants; kills mealy bug, red spider and all insect pests. Pt., \$1.50; qt., \$2.25; 2 qts., \$4.25. All British measure which is larger than U. S. measure.

SPRAYERS AND DUSTERS

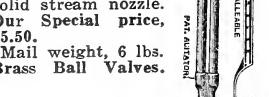


Auto Spray No. 6 "In a Class by Itself."

AUTO-SPRAY No. 6, as shown herewith, is probably the most powerful bucket pump manufactured. This sprayer can easily generate a pressure of 200 lbs. The pump sprays perfectly on both the up and down strokes; 3½ feet of high-pressure ¾-inch hose, brass, fine spray nozzle, brass solid-stream nozzle. Mail weight, 7 pounds. Complete, \$5.50. 2 feet Brass extension, 50c. Mail weight, 1 pound.

Myers Little Giant Brass Pump

No. 327½. Fig. 639. Bucket Brass Spray Pump, complete with hose and combination, fine, coarse spray and solid stream nozzle. Our Special price, \$5.50. Mail weight, 6 lbs. Brass Ball Valves.



The Auto-Spray No. 1 has been standard for twenty years, and over 600,000 are in use with experiment stations and horticulturists all over the world.

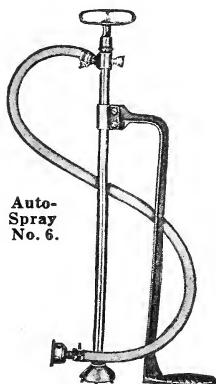
The Auto-Spray No. 1 is the strongest and most simple in its working parts of any compressed air sprayer. Two pumpings of about 15 strokes on the plunger will discharge the contents under high and constant pressure. After pumping, the operator has nothing to do but direct the spray. This sprayer is equipped with our patented Non-Clogging Nozzle.

USES: For spraying trees, shrubs, vines, field crops, greenhouses and poultry houses; for applying Paris green, arsenate of lead, bordeaux, lime and sulphur emulsions, disinfectants, cattle-fly oil, whitewash, cold water paints, etc.

CONSTRUCTION: It consists of a solution tank holding 3½ gallons. The tank is made of galvanized steel or heavy sheet brass, as ordered. (We strongly recommend the Brass, because it will not corrode with strong solutions, and will last indefinitely.)

The Sprayer is carried by a shoulder strap, and will cover ten times more area in a day than can be covered with the old-style sprayers.

Auto-Sprayer No. 1 B—Brass tank, with Auto-pop.....	\$9.50
Auto-Sprayer No. 1 D—Galvanized tank, with Auto-pop.....	6.50
Two-row Attachment—For spraying two rows at one time.....	1.50
Brass Extension Pipe—Two feet long.....	.70
Brass Elbows—For spraying under vines, etc. ....	.40
Brass Strainer—For straining solution.....	1.20



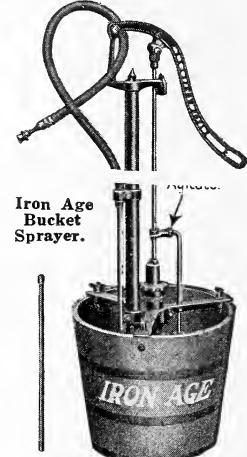
Auto Sprayer No. 1

COMPRESSED AIR SPRAYER.

Iron Age Bucket Sprayer

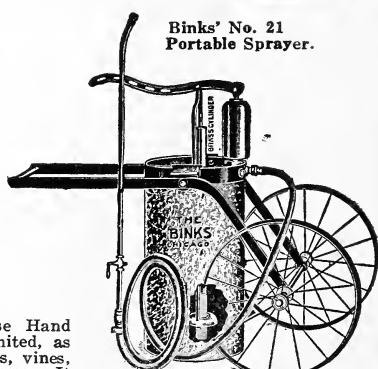
No. 195 is the complete Bucket Sprayer with special bucket in place of the foot piece. An automatic agitator keeps solution stirred thoroughly. Easily carried in one hand by the pump cross piece or by the lever at the top.

Equipment. Thirty-three inches of hose, two-foot steel pipe extension with adjustable hand grip and "Iron Age" nozzle are included with each No. 195. With the pipe extension you can stand away from your work — also reach higher bushes, small trees, buildings, etc. Price, \$15.00.



Binks' No. 21 Portable Sprayer

Our Style No. 21 Portable Sprayer is adapted for all spraying purposes, and is a most excellent machine for the average grower, truck-garden owner, or suburban home. The machine is equipped with a well-made reinforced 12-gallon tank, large steel wire wheels with 1½ inch tires, and is easily wheeled about. The pump is constructed of the best materials throughout, and equipped with our patented agitating device which cleans suction strainer at every operation of the pump handle, making clogging impossible. Price, \$25.00.



Auto Spray No. 5

"IN A CLASS BY ITSELF."

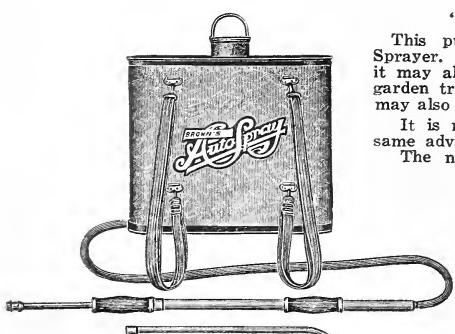
This pump is the ideal all-purpose Hand Sprayer. Its field is practically unlimited, as it may also be used for spraying trees, vines, garden truck, potatoes, and any field crop. It may also be used for handling whitewash, disinfectants, etc.

It is made entirely of brass and works on the same principle, and has the same advantages as the Auto-Spray No. 6, shown on this page.

The nozzles regularly furnished with this pump are of special design, so this Sprayer can be used on trees the height of an apple tree, as well as on bushes near at hand.

We furnish an extra solid stream cap for washing windows and carriages. This solid stream or long distance nozzle can be used to fight fires, also. We know of no other small Hand Sprayer that will throw as fine a spray as the Auto-Spray No. 5. Price complete, Pump, Hose, Nozzle, Tank, and attachment for use in bucket, \$9.50.

Auto Spray No. 5. Complete with strainer, to be used as a bucket pump, but without reservoir, \$6.00. Reservoir alone with shoulder straps, \$3.50.



Sprayers and Dusters—Continued

PARAGON SPRAYERS

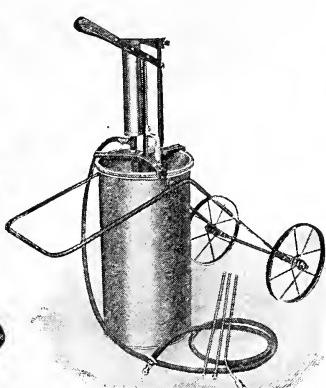
Paragon Sprayers are good investments. They pay large dividends. Better light, better sanitation, more cheerfulness, decreased light bills, decreased insurance, better and more fruit, are a few things that are easily and economically obtained by using the Paragon Sprayer.

These cuts show the simplicity of the pump, also the strainer and agitator. No other pump can show this feature. This pump is strong, simple and durable. Can easily be handled by one man.

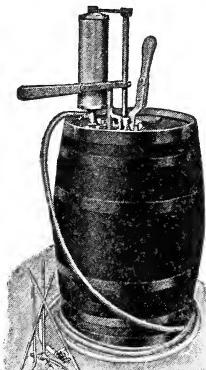
THE PARAGON SPRAYER WILL DEVELOP A PRESSURE OF 150 TO 250 LBS.



Paragon Sprayer
No. 1.



Paragon Sprayer No. 3.



Paragon Sprayer No. 5.



Paragon Sprayer No. 4.

PARAGON SPRAYER NO. 1

Price, \$17.50—Capacity, 6 Gallons.

EQUIPMENT: 5 feet Special Spray Hose, 5 feet Pipe, 1 Mist Nozzle, 1 Steel Cap for Mist Nozzle. 1 Straight Spray Nozzle.

PARAGON SPRAYER NO. 3

Price, \$25.00—Capacity, 12 Gallons.

EQUIPMENT: 10 feet Special Spray Hose, 7½ feet Extension Pipe, 1 Mist Nozzle, 1 Steel Cap, 1 Straight Spray Nozzle.

PARAGON SPRAYER NO. 5

PARAGON SPRAYER NO. 5

Price, \$45.00—Capacity, 50 Gallons.

EQUIPMENT: 25 feet Special Spray Hose, 10 feet Extension Pipe, 1 Three-Way Spraying Nozzle, 1 Single Spraying Nozzle.

PARAGON SPRAYER NO. 4

Price, \$39.50—Capacity, 28 Gallons.

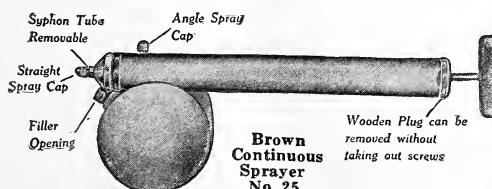
EQUIPMENT: 20 feet Special Spray Hose, 10 feet Extension Pipe, 1 Mist Spray Nozzle, 1 extra Steel Cap, 1 Straight Spray.

Hand Sprayers



AUTO-SPRAY NO. 22. (Shown above.) For all kinds of small spraying and disinfecting. This atomizer is made of heavy tin and holds one quart. Price 60c.

Brown Continuous Sprayer No. 25



Wooden Plug can be removed without taking out screws

Sprays fly oils and disinfectants as well as the regular spraying materials. An extra nozzle is furnished for spraying under side of the foliage.

Brown's Sprayer No. 25-A—One quart, all tin.....\$1.00
Brown's Sprayer No. 25-B—One qt., tin pump, galv. tank 1.25
Brown's Sprayer No. 25-C—One qt., tin pump, brass tank 1.50
Brown's Sprayer No. 25-E—½ gal., tin pump, brass tank 2.00

WHITEWASH FORMULA
Take good, fresh, unslacked lime, cover well with water, and leave it to slack over night. Next day add water to thin. Also add five cents' worth of ultramarine blue, (buy in paint store) and five cents' worth of common salt to every twelve gallons. Add one-fourth pound of dissolved ground glue to every two gallons. Dissolve glue in warm water. Mix and stir thoroughly.

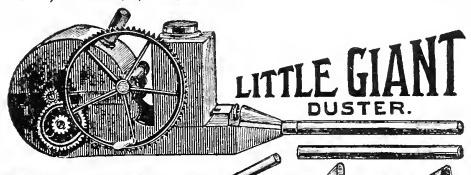
When used with a Paragon Sprayer, will save time, trouble and expense.

DUSTERS.



"Duster Brown" Sprayer.

"DUSTER BROWN." Especially designed to meet the increasing demand for a dependable sprayer to distribute dry insecticides. Tin, nicely japanned. Holds about 1 qt. (3 lbs.) Price, \$2.25.



LITTLE GIANT DRY POWDER DUSTER. For Farm, Garden, Vineyard, Tobacco Fields, etc. Machine weighs about six pounds. Furnished with three 16 inch tubes, five nozzles and strap. Weight, cased, about 15 lbs. Capacity about one quart. For low growing crops only. A very good machine, especially when Paris Green and like powders are to be applied. Price, \$12.00.

Miscellaneous Garden Requisites

We will mail any of the following items that we can, provided postage is remitted with order. Some articles will be postpaid and you will find them so marked. Prices quoted are subject to change without notice. If you wish articles not listed on the following miscellaneous pages, write us, we will gladly procure them for you if they are not in stock.

Prices. In the present re-adjustment period prices are inclined to drop. If there are any reductions from prices quoted in this catalog we assure our customers they shall have the advantage.

ASPARAGUS BUNCHER. Philadelphia No. 1. Without knife. Makes bunches 3 to $\frac{3}{4}$ inches in diameter. Each, (2 lbs.), \$3.50.

ASPARAGUS or CELERY TAPE. Red or Blue in spools of 1,000 yards. Fast colors. Makes bunches very attractive for the best trade. Price subject to change. Per spool, (2 lbs.), \$3.00.

APRONS, GARDENERS' RUBBER. Heavy, \$3.75. Lighter weight rubber, (1 lb.), \$1.25.



ASPARAGUS KNIFE or LAWN WEEDER. Drop forged blade. Birch handle, 15 inches long. Weight, 1 lb. Each, 65c.

BAMBOO CANES. (See Stakes.)

BILL HOOKS, ENGLISH. For trimming shrubbery. Weight 4 lbs. Price: Short handle, \$4.50; long handle, \$6.50.

BELLOWS.

Sulphur. For applying sulphur, Hellebore, etc., to plants. Price, \$4.00.

WOODASON'S DOUBLE CONE POWDER. For dusting plants with dry powders for insects and fungus. This double cone bellows can be held in any direction without wasting powder, as it regulates its own supply, and it does not clog up, dusting under the leaves as well as on top. The best article ever invented for destroying insects in the conservatory, garden, orchard or field. Price, \$6.75.

WOODASON'S SINGLE CONE. Large size, Price, \$4.75; small size, (for conservatory and home use). Price, \$3.50.

CHARCOAL. Fine or coarse. 2 lbs., 20c; 10 lbs., 75c; 50 lbs., \$3.50.

CORN KNIVES. For cutting down cornstalks. Each, 90c.



Dibble.

DIBBLE. Iron handle; steel point. Each, 60c; 5 or more at 55c.

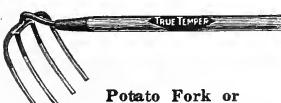
DUSTERS, ACRE-AN-HOUR. For distributing insecticides, etc. $2\frac{1}{2}$ quarts. Each, 75c.

EDGING KNIVES OR TURF EDGERS. American. Steel blade. Hard wood handle. Each, \$1.00.

FIBRE WARE. (See Pots and Sauers.)

FLOWER POTS. (See Pots.)

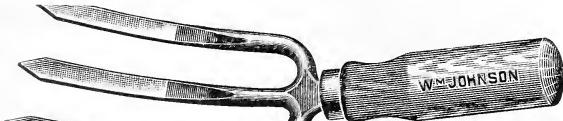
FLOWER BOXES, "SAVO." All metal; self watering. (See page 52.)



Potato Fork or
Manure Drag.

FORKS, WEEDING. Gem. Each, 50c.

FORKS, POTATO DIGGING or MANURE DRAG. 4 tines. Each, \$1.50.



Spading Fork No. 300.

FORKS, SPADING. No. 300. Well made. Length over all, 11 inches. Each, 55c.

FORKS, SPADING. No. 400. Finished in red enamel. Hard wood handle with brass ferrule. 4 tines. Length over all, 10 inches. Each, 35c.

FORKS, MANURE. Strapped ferrules. 6 tines. Each, \$2.25.



Spading Fork.

FUMIGATING LAMPS. For vaporizing Nicotine. 75c.

GARDEN LINE. White, glazed. Superior to Italian Hemp garden line. 48 feet weighs 6 ounces. 48 feet, 75c.

GARDEN LINE REELS. With stake. \$1.50.

GLASS CUTTER. No. 1, Turret Head, Tested. (4 ozs.) Each, 50c.



GLASS CUTTER. Red Devil. Each, 25c, postpaid.

The Peerless Glazing Point is the only perfect Point known.

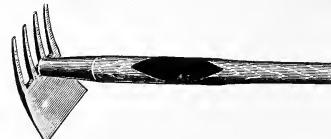
The latest improvement is that both points are beveled on top and will hug close to glass when driven. Three sizes, No. 1, for small single thick glass; No. 2, for medium double thick glass; No. 2½, for large double thick and Skylight glass. Price, per 1,000, 75c; postpaid, 90c. 5,000, \$3.50, by express.

GRAFTING WAX. $\frac{1}{4}$ lb., 20c; $\frac{1}{2}$ lb., 30c; 1 lb., 50c; 5 lbs., \$2.25.

GRASS EDGER, AMERICAN. 9-inch blade, \$1.00.

GRASS HOOKS. (See Sickles.)

HANGING BASKETS. Galvanized wire. 8 inch, 30c; 10 inch, 40c; 12 inch, 60c; 14 inch, 75c.



Combination Draw Rake and Hoe.

HOES.

BABY WARREN. For transplanting, making and covering drills in flower beds, and weeding. Excellent for scraping young trees. $4\frac{1}{2}$ in. blade..... \$0.55

COMBINATION DRAW HOE AND RAKE. with 5 foot handle, $4\frac{1}{2}$ inch cut, 4 teeth..... .90

CORN. 7 in. blade, $2\frac{1}{2}$ in. deep..... 1.00

DRAW OR FIELD. 6, 7 and 8 in. blades..... 1.00

LADIES' SIZE. 5 in. blade..... .76

MAGIC WEEDEER HOES. Strong and durable, spring teeth. Light and easy to use; very popular. Short Handle, 3 teeth, 20c; 4 teeth, 35c; 5 teeth, $1\frac{1}{2}$ in. blade on back for use as a hoe, 45c. Long Handle, 4 teeth, 3 in. blade on back, \$1.10; 4 teeth only..... 1.00

PRONGED HOE OR POTATO FORK. 6 heavy round tines, \$1.50; 5 heavy round tines..... 1.35

PULL EASY HAND CULTIVATORS. Malleable iron and steel frame and teeth; arms easily adjustable to any width row. 18 in., 9 teeth, 4 ft. handle..... 1.50

SCUFFLE or PUSH HOE WITH HANDLE. American. 9 and 10 in., 90c; 7 and 8 in., 75c; 6 in.70

WARREN. Heart-shaped Hoe; 5 foot handle..... 1.25

HOTBED MATS. (See Mats.)

HOTBED SASH. Unglazed. Four rows glass 8x10 inches square. Each, \$3.00. Cypress, knock down, five for \$15.00.

PUTTY. Twemlow's Old English. Semi-liquid. Same as Mastica. Per gallon, \$3.25.

Miscellaneous Supplies—Continued

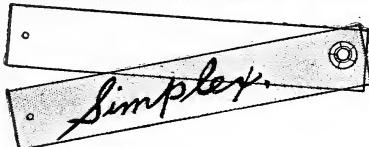


Pruning Knife



Pruning Knife

KNIVES, ASPARAGUS or WEEDING. (See page 48.)
KNIVES, BUDGING. Saylor's. One blade straight or curved. Each, \$4.25.
KNIVES, PRUNING. Field's Staghorn handle. Each, \$2.75.
KNIVES, PRUNING. Ivory handle. Each, \$1.00.
KNIVES, PROPAGATING. Ivory handle. Each, \$1.00.



LABELS. Mark your plants and know the particulars about them.

Pot Labels. Wooden.	Garden Labels.
Painted 100 1000	Painted 100 1000
4 inch \$0.30	8 inch \$1.50
5 inch ..... .40	10 inch 1.90
6 inch ..... .50	12 inch 2.25

TREE LABELS, WOODEN. 100 1000
 3½ inch, iron wired 40 2.50
 3½ inch, copper wired 50 2.90
LABELS, SIMPLEX PLANT, WATERPROOF. Neat, convenient, lasting. Size No. 1, 3x½ inch, doz., 35¢; per 100, \$2.10. Size No. 2, 4x¾ inch, doz., 75¢; per 100, \$4.25.

MASTICA



MASTICA. For glazing greenhouses, hotbeds, sash, etc., better than putty, does not crack, always remains soft. Per gallon, \$2.75.

MASTICA MACHINE. For applying above. (Weight, 1½ lbs.) Each, \$3.00.



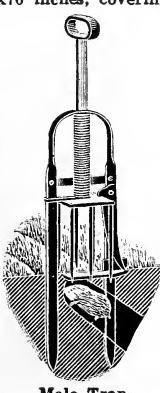
MATS, HOTBED. Hotbed mats keep frosts and severe cold out of frames. They mean earlier and bigger crops. One side waterproof and the other side burlap are the best mats that it is possible to procure. They are padded with shoddy. Rats and mice do not harbor in them, and they are otherwise practically indestructible. Will last many times longer than common mats. Also used for wagon covers. Weight about 10 lbs. Size 76x76 inches, covering two regular size sash. Each, \$4.00.
MOSS, LOG, GREEN. Per bag, \$3.00.
MOSS, SPHAGNUM, DRIED. Bale, \$2.50; 5 bales, \$11.75.

MOLE TRAP, THE REDDICK. A powerful trap used principally on lawns; easily set. Made of galvanized iron. It will catch moles when they are quite deep in the ground. As the points of the pins are constantly in the ground, they cannot injure domestic animals. \$1.25 each; \$11.00 per dozen.

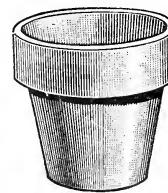
OSMUNDINE FIBRE. Used for potting Orchids. Per barrel, \$3.50.

PAPER, for Wrapping Flowers.

	Lb. Ream
Plain White Tissue, 24x36.....	\$0.30 \$2.25
White Wax, 24x36.....	.50 3.25
Green Wax, 24x36.....	.60 4.25



Mole Trap.



Standard Clay Flower Pot.



Neponset Paper Pot.



Fibre Saucer

FLOWER POTS AND SAUCERS.

		CLAY FLOWER POTS. Prices for Standard, Low or Azalea styles.	Doz.	100	1000
2	inch	.....	.06	\$1.25	\$11.25
2½	inch	.....	.25	1.65	15.00
3	inch	.....	.30	2.15	19.50
4	inch	.....	.42	3.30	28.50
5	inch	.....	.78	6.00	54.00
6	inch	.....	1.10	9.00	81.00
7	inch	.....	1.65	15.00	.....
8	inch	.....	2.75	23.00	.....
9	inch	.....	5.00	33.50	.....
10	inch	.....	6.00	46.00	.....
12	inch	.....	12.50	.....	.....

CLAY SAUCERS.

Size	Each	Doz.	100	Size	Each	Doz.
4 in.....	\$0.05	\$0.40	\$2.60	9 in.....	\$0.20	\$1.75
5 in.....	.05	.50	3.00	10 in.....	.20	2.00
6 in.....	.07	.65	5.00	11 in.....	.25	2.50
7 in.....	.10	.80	6.00	12 in.....	.30	3.00
8 in.....	.14	1.40	9.00	14 in.....	.40	.....

NEPONSET PAPER POTS. Made of water-proof paper; light, clean and unbreakable.

Size	Each	Doz.	100	Size	Each	Doz.
2½ inch	15	.85	5.50
3 inch	20	1.15	7.25
3½ inch	25	1.50	9.50
4 inch	30	1.80	12.85
5 inch	45	2.75	18.50
6 inch	65	3.75	25.00

FIBRE SAUCERS. Far cheaper in the end than earthenware. Extremely desirable on account of being absolutely waterproof.

Size	Each	Parcel Post	Price
5 inches	1/4 lb.	\$0.35 \$3.60
6 inches	5/8 lb.	.37 3.90
7 inches	1 1/2 lb.	.38 4.20
8 inches	1 1/2 lb.	.42 4.50
9 inches	3/4 lb.	.46 4.90
10 inches	3/4 lb.	.50 5.30
12 inches	1 1/4 lb.	.55 6.30
14 inches	1 1/2 lb.	.74 8.40
16 inches	2 lb.	1.31 15.00
18 inches	2 1/2 lb.	1.52 17.40
20 inches	4 lbs.	1.95 22.00

ROLLING STANDS FOR FIBRE SAUCERS. Heavy plants can be pushed around from place to place as easily as a light table.

Outside diam. about 12 in. Takes pot 10 in. at bot. \$1.00 \$11.40
 Outside diam. about 14 in. Takes pot 11 in. at bot. 1.25 14.25
 Outside diam. about 16 in. Takes pot 13 in. at bot. 2.25 25.65
 Outside diam. about 18 in. Takes pot 15 in. at bot. 2.67 30.40

PUTTY. Twemlow's Old English. Semi-liquid. Per gal. \$3.25.

MASTICA. Liquid Putty. Per gal. \$2.75.

PUTTY BULB. Scollay's. Useful tool with a tube for applying liquid putty in glazing greenhouses. (Weight, 1½ lbs.)

Each, \$1.50.

RAFFIA. Lb. 25c; 5 lbs. \$1.15.

RAKES, STEEL GARDEN. 12 teeth, 90c; 14 teeth, \$1.10.

DISSTON PRUNING SAWS.

No. 111. Malleable iron handle, 10 inch blade; adjustable. 2 lbs. Each, \$2.50.

No. 11. For sawing by hand or attached to a pole. Adjustable for different angles. 2 lbs. Each, \$2.00.

No. 10. Pole saw. Socket handle. Adjustable blade. Without pole. 2 lbs. Each, \$2.50.

DISSTON

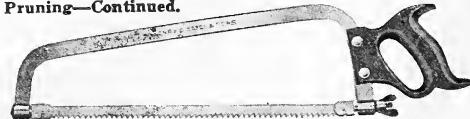
DISSTON

DISSTON

DISSTON

Miscellaneous Supplies—Continued.

Saws, Pruning—Continued.

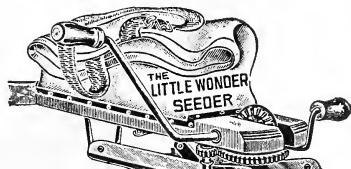


No. 25. Flat steel frame. Beech handle. Blued steel blade, 14 inch blade. 2 lbs. Each, \$2.25.



York State Pruner. Beech handle. Narrow steel blade 20 inches long. 2 lbs. Each, \$2.50.

Little Wonder Seeder. Improved, with crank. Heavy duck hopper with shoulder strap, slant feed board, sheet steel oscillating feed plate, double flange distributing wheel, automatic feed adjustment. Each, \$2.00.



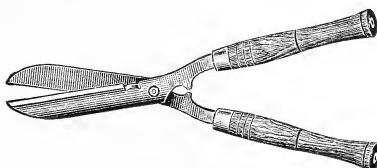
CYCLONE SEEDER.

A machine which should be on every farm. It is so simple in construction that a boy can use it. It is light, strong and durable, and with ordinary care will last a lifetime. It will sow timothy, clover, millet and grass seeds of all kinds, turnip, corn and all other seeds perfectly even, and any desired quantity from one quart to three bushels can be sown per acre by following the simple directions on every machine. Price, \$2.25, not prepaid. Weight, 5 lbs.



SHEARS—PRUNING, HEDGE AND BORDER.

SHEARS, HEDGE. No. 100L. For ladies' use. 6 inch blade. Each, \$1.50.



Hedge Shears.

SHEARS, HEDGE. No. 100. Forged solid steel. Steel Ferrules. 8 inch, \$1.75; 9 inch, \$1.90; 10 inch, \$2.10.

SHEARS, HEDGE. No. 101. Notched with knife edge for cutting heavy growth. Each, 8 inch, \$2.00; 9 inch, \$2.10.

SHEARS, BORDER. No. 104. Without wheel. Forged solid steel. 36 inch handles. Each, 8 inch, \$3.25; 9 inch, \$3.50; 10 inch, \$3.75.

SHEARS, BORDER. No. 105. With wheel. Forged solid steel. 36 inch handles. Each, 8 inch, \$3.50; 9 inch, \$3.75; 10 inch, \$4.00.



Grass Border Shears, No. 105.

SHEARS, LOPPING. Rhodes' Double Cut Wood Handled Pruner. The most powerful pruner made. Made in three lengths, 20 inch, 26 inch and 30 inch. Each, any length, \$5.00. Shipping weight about 5 lbs.

SHEARS, SHEEP or GRASS BORDER. Each, 30c and 50c.

SHEARS, PRUNING. Wiss Jr. No. 209. An extra fine quality shear made of the best steel. \$1.50 each.

SHEARS, PRUNING. Wiss No. 109. (See cut.) The very best shear made. Each, \$4.50.

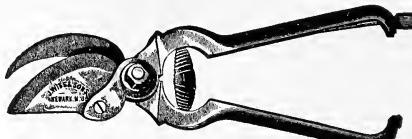
SHEARS, PRUNING. No. 4665, 9 inch, each, 90c. No. 607, 9 inch, each, \$1.40. No. R85, 9 inch, each, \$2.50.

FLORISTS' SHEARS or SNIPS. Wiss No. 1. Each, \$2.00.

CLYDE TREE PRUNERS. With removable cutting blade and pole complete.

	Each	Each	
6 feet	2.00	10 feet	\$2.50
8 feet	2.25	12 feet	2.75

Extra Blades for Water's Pruners. 25c each.



Pruning Shears, No. 109.

SHOVELS. Dennis, solid steel, round point, D handle. Each, \$1.50.

SICKLES, FOR GRASS. No. 1, each, 75c. No. 75, each, 60c; No. 5, each, 45c.

SEIVES. Any size mesh; made to order. Extra heavy, 18 inch, \$3.00.

SPADES, STEEL. Best. Each, \$1.50.

SILKALINE. For stringing smilax, etc. Spool, 35c; 8 spools, \$2.50.

SPRINKLER, SCOLLAY'S RUBBER. Each, \$1.50.

SYRINGES, BRASS GREENHOUSE. No. 11. One stream, two sprays. Each, \$6.50.

STAKES, JAPANESE CANE. Natural. 6 ft. Doz., 40c; per 100, \$2.50; per 250, \$6.00; per 1,000, \$19.00.

HYACINTH STICKS, GREEN. 12 inch, per 100, 40c; per 1,000, \$2.50; 18 inch, per 100, 50c; per 1,000, \$3.50.

STAKES, JAPANESE GREEN CANE.

Per doz. Per 100	Per doz. Per 100						
1½ feet \$0.20	\$0.75	3 feet \$0.35	\$1.60	2 feet25	1.25	4 feet40	2.25
3 feet \$0.35	\$1.60						
2 feet25	1.25	4 feet40	2.25				
4 feet ..... .40	2.25						

WOOD STAKES. Light tapering, round, painted green.

Per doz. Per 100	Per doz. Per 100														
1½ feet \$0.40	\$1.80	3½ feet \$1.10	\$8.00	2 feet50	3.50	4 feet 1.35	10.50	2½ feet70	5.50	5 feet 1.75	13.00	3 feet 1.00	6.50		
3½ feet \$1.10	\$8.00														
2 feet50	3.50	4 feet 1.35	10.50	2½ feet70	5.50	5 feet 1.75	13.00	3 feet 1.00	6.50						
4 feet 1.35	10.50														
2½ feet70	5.50	5 feet 1.75	13.00	3 feet 1.00	6.50										
5 feet 1.75	13.00														
3 feet 1.00	6.50														

THERMOMETERS.



WILDER THERMOMETERS are the best and most carefully tested Thermometers made.

Greenhouse. Has black Japanned metal case, and has been carefully tested for accuracy. Each, \$1.00, postpaid.

Hot Bed. Thoroughly tested; hard wood standard, with solid brass base and protector for the mercury bulb. Each, \$2.25, postpaid.

Self Registering. (Minimum and maximum.) Tyco make; 10 inch. The best. Each, \$5.50, postpaid.

INCUBATOR THERMOMETERS. We have them for any make of Incubator.

No. 1046, with wire holder. Can be used on any Incubator. \$1.00. Without holder, 75c, postpaid.

No. 1096, with adjustable brass legs and wire hangers. \$1.00 postpaid.

BROODER THERMOMETER. Mounted on wooden post. Length 10 inches. \$1.00, postpaid.



No. 1046.



No. 1096. Green-House. Hotbed.



Miscellaneous Supplies--Continued



Richmond Style.		New York Style.			
Size	Diam.	Each	Size	Diam.	Each
No. 3.	8 inch	\$0.90	No. 1.	12 inch	\$3.40
No. 5.	10 inch	1.00	No. 2.	13 inch	4.00
No. 7.	12 inch	1.60	No. 3.	14 inch	5.50
No. 9.	14 inch	2.25	No. 3½.	16 inch	6.00
No. 11.	16 inch	2.90	No. 4.	19 inch	7.50
No. 13.	18 inch	4.00	No. 5.	22 inch	9.50

TREE SCRAPERS. Best steel, 10 and 20 inch handle. \$1.50.

TROWELS, GARDEN, DST. Solid Steel, 7 inch. Each, \$1.00.

TROWELS, GARDEN. No. 215. English, 6 inch. Each, 35c.



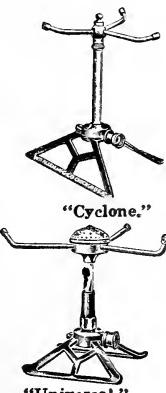
WATERING CANS, WOTHERSPOON'S
Long spout. For greenhouses; round style. Heavy galvanized iron, 2 copper roses. Six qt. size, \$4.00; 8 qt. size, \$4.50; 10 qt. size, \$5.00; 12 qt. size, \$5.50; 16 qt. size, \$6.00. Low style for greenhouses, 4 qt. size, 2 roses, \$3.50.

WOTHERSPOON'S OVAL or FRENCH STYLE CANS. Like cut herewith. At 50c each, higher than the round style.

Lawn Requisites, Sprinklers, Nozzles, Etc.

CYCLONE SPRINKLER.

Ground joint head. Head and arms finished brass, stem japanned red. Base japanned black with swivel hose connection. One of the most popular sprinklers on the market. Mailing weight 3 lbs. Each, \$2.25.



"Cyclone."
"Universal."



"Colorado."

COLORADO SPRINKLER.

Same general idea as the Cyclone except mounted on larger sled and longer stem. Covers a larger circle than the Cyclone. Mailing weight 5 lbs. Each, \$3.25.



RING SPRINKLER.

One of the most Popular Sprinklers on the market; made of heavy sheet brass with Perforations arranged to give rain-like effect. No parts to wear or lose. Mailing weight 1 lb. Each, \$1.00.
"Ring."

C. B. G. SPRINKLER.

One of the best, cheap distributors of water on the market. Cast iron, japanned black. Throws full circle spray. Mailing weight 2 lbs.. Each, 45c.

Nozzles

ALLEN SPRAY NOZZLE



ALLEN NOZZLE

Heavy cast brass nozzle giving spray, straight stream, and positive shut-off. Spray formed in barrel of nozzle and full circle—spray guaranteed. All nozzles tested by water pressure before shipment. Mailing weight 1 lb. Each, \$1.00.



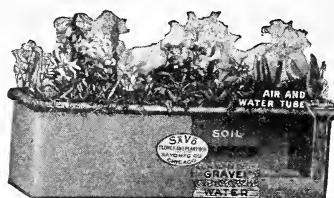
GALVANIZED STEEL HOSE CLAMP.

Made of steel, heavily galvanized by electro process, making it practically rust proof. Gives long service. Each, 4c; doz., 40c, postpaid.

"MYSTIC" SPRAY NOZZLE. A "different" spray nozzle. It gives a perfect spray of any degree of fineness or straight stream, better than most spray nozzles. It does not shut off. This eliminates damage to the hose from back pressure. For $\frac{3}{4}$ inch fitting. Weight 1 lb. Each, 50c.

"JUSTRITE" SPRAY NOZZLE. In this nozzle the spray is formed by a brass point coming down into the stem. It is graceful in form and appearance, and in execution it gives a copious spray, a well defined full stream, and a positive shut-off. All solid brass. For $\frac{3}{4}$ inch fitting. weight 1 lb. Each, 75c.

"SAVO"
SELF-WATERING
FLOWER BOXES.



Savo Self-Watering Flower Boxes—one of the best of this type of flower boxes. Made of the best grade of galvanized steel with neat round corners and a full roll rim—beautifully finished in green or aluminum.

	Height	Width	Length	Price
Model A.	8 inches	9 1/2 inches	23 inches	\$3.00
Model B.	8 inches	9 1/2 inches	29 inches	4.00
Model C.	8 inches	9 1/2 inches	35 inches	4.50
Model D.	8 inches	9 1/2 inches	41 inches	5.00
Model E.	8 inches	12 inches	12 inches	3.00
Model F.	12 inches	12 inches	12 inches	3.50

Johnson's High Grade Fertilizers

Beware of Stable Manure. It will fill your lawn with weeds, and cause you many times the cost of a good commercial fertilizer, such as Sheep Manure or Bone Dust.

Prices on all fertilizers are subject to change without notice.

GROUND BONE FERTILIZER. Stable dressing is unpleasant to handle and always contains more or less weed seeds. There are no weed seeds in this fertilizer. It will impart to your lawn that much desired dark green and velvety appearance. Should be applied as a top dressing either in Spring or Fall. 5 lbs., 35c; 10 lbs., 65c; 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.00; 500 lbs., \$16.50; 1,000 lbs., \$31.50; ton, \$60.00.

PURE CRACKED BONE. For grape vines, fruit trees, shrubs and trees of all kinds. Should be used when planting out and should be well mixed with the soil to the depth of a foot or more. 5 lbs., 50c; 25 lbs., \$1.50; 100 lbs., \$5.50; ¼ ton, \$25.00; ½ ton, \$45.50; ton price on application.

PULVERIZED SHEEP MANURE. This is a pure natural manure and one of the most nutritious foods for plants. Its effect is immediate. It is very rich, safe and gives quick results. It will give excellent results on flower beds, lawns or in vegetable gardens, as it contains all the elements for promoting a quick, luxuriant growth, as well as adding body to the plant. Can be used either in dry form or dissolved to make a liquid manure. If applied dry, no raking off is required as it does not disfigure the grounds, nor does it contain seeds of foul weeds, nor offensive odor. Prices: 1 lb., 10c; 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.10; 50 lbs., \$2.00; 100 lbs., \$3.50; 500 lbs., \$15.00; 1,000 lbs., \$26.00; ton, \$50.00.

COW or CATTLE MANURE. (Shredded.) One sack of this is equal to one cart load of fresh cow manure. Especially suited for soil mixing, mulching and liquid manuring. 100 lbs., \$3.00; 500 lbs., \$14.00; 1000 lbs., \$26.00; ton, \$50.00.

HARDWOOD ASHES. Highest grade unleached. For top dressing lawns, especially if the soil is stiff or sour, 1 ½ to 2 tons to the acre. Per 25 lbs., \$1.00; 50 lbs., \$1.65; 100 lbs., \$2.75; 500 lbs., \$11.00; 1,000 lbs., \$20.00.

AGRICULTURAL HYDRATED LIME. It supplies the element calcium to plants; it makes "sour soil sweet," changes an acid condition to a slightly alkaline one; it has the power to shrink clay and adobe soils, making a larger number of crumbs from a sticky mass; it prevents packing, baking and cracking, makes cultivating easier; it promotes the normal decay of organic matter in the soil. It destroys fungus and the germs of insect life that infest the soil. Hydrated Lime, because of its fineness, high calcium contents and concentrated condition, is the ideal agricultural lime and the most economical on the market. Use one-half less than other forms of lime. In sacks weighing 50 lbs. per sack. \$1.50; 2 sacks (100 lbs.) \$2.50. Delivered anywhere in the city. Write for prices on ton lots.

NITRATE OF SODA. Break up the lumps before using. Apply in the home garden as a solution one ounce to two gallons of water. For Asparagus use 250 lbs. per acre when growth starts. For Strawberries top dress with 100 lbs. per acre just after blossoming. For other crops use 100 lbs. per acre when the plants are well established. 1 lb., 15c; 5 lbs., 50c; 25 lbs., \$2.00; 50 lbs., \$3.50; 100 lbs., \$6.00. Write for prices on larger quantities.

BONE AND BLOOD. For Cabbage, Cauliflower, Corn and other crops of big surface growth; not desirable for root crops except it is used in connection with potash, or hardwood ashes, and if so used it is especially adapted to fruits, if applied early. For garden crops use 300 to 500 lbs. per acre. Price, 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.50; 500 lbs., \$20.00; 1,000 lbs., \$37.00; 2,000 lbs., \$70.00.

BOOKS

NEW BOOK—Amateur Garden Guide. This most complete little book covers every step, from the spading up of the garden to the winter preservation of the crop. In less than five years it has been reprinted four times, considerably added to each time, until now, in its fourth edition, with its many new chapters, we consider it unapproachable from any point of view. Paper cover, 275 illustrations. Price, \$1.25, postpaid.

FLOWER GARDEN, The American. By Neltje Blanchan. 92 full page photographs, 4 color plates, 88 halftone. Popular edition. Postpaid, \$3.75.

Shows the purpose of each different kind of garden, how to lay it out, what effects should be worked for, and how to group plants, trees and shrubs artistically. It is, in short, a book that conveys in a delightful way, the real spirit of the garden.

CLAY'S FERTILIZER. This valuable imported manure is especially recommended to all who grow either fruit, flowers or vegetables, and wish to bring them back to the highest perfection. It should also be used in potting soil as a top dressing. Price, 28 lbs., \$5.00; 56 lbs., \$7.50; 112 lbs., \$14.50.

SCOTCH SOOT. (Genuine Imported.) Gardeners know the value of the genuine article for stimulating a healthy growth of dark green foliage, and its beneficial effect in freeing the soil from slugs, grubs and cut worms. Price, 28 lbs., \$3.00; 56 lbs., \$4.75; 112 lbs., \$8.50.

LEAF MOLD. Indispensable for azaleas, rhododendrons, etc. In sacks of about 120 lbs., \$3.00 per 100 lbs.

MOSS, SPHAGNUM. For filling orchid baskets, etc., and for mixing with potting soil to conserve moisture. In large bales of about 30 lbs. at \$2.50 per bale, f. o. b. Cleveland.

PEAT, ORCHID. For potting orchids, etc. In sacks of about 30 lbs. at \$3.00 per sack.

PEAT, ROTTED. Fine for mixing with soil for potted plants such as azaleas, palms, etc. In sacks of about 85 lbs. at \$4.00 per 100 lbs.



Feed Your House Plants New Life and Vigor —

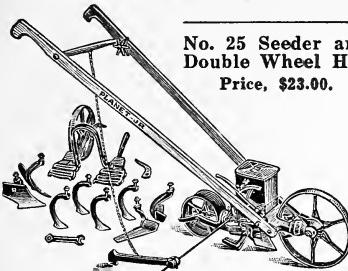
SUPERIOR HOUSE PLANT FOOD. Plant success is a matter of feeding with definite amounts of correctly balanced plant foods as the plants require them. Superior House Plant Food is a well balanced food which enables the planter to keep development absolutely under control, for he can feed his plants as they require food. Price, per 7 oz. can, 50c. Postage extra, 5c.

Stim-u-plant Tablets

Stim-U-Plant Tablets are designed for use by all who grow plants—home gardeners, market gardeners, small fruit growers, fruit growers, florists and farmers. Trial size, 15c; small size, 30c; 100 tablets, 85c; 500 tablets, \$2.25; 1000 tablets, \$4.00; each size, postpaid.

Planet Jr. Seeders and Wheel Hoes

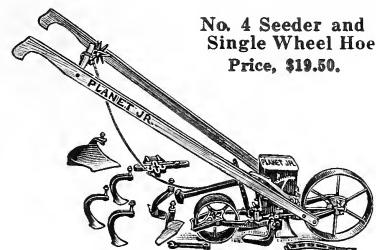
The New "PLANET JR." Catalogue is the handsomest, best and most instructive book ever issued on a similar subject. Full of little points that bring profit. Full of true and handsome illustrations. We mail it free to any address on application.



No. 25 Seeder and Double Wheel Hoe

Price, \$23.00.

With No. 25 two acres a day can easily be worked, and when it is done, it will be a better job than several men could have done in the same time with hand hoes.



No. 4 Seeder and Single Wheel Hoe

Price, \$19.50.

No. 4 pays for itself in a season and will last for years. Thousands have been sold in this and in many foreign countries.



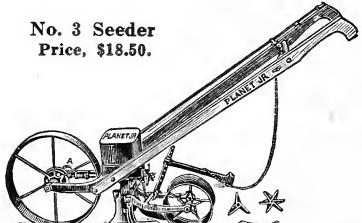
No. 31 Seeder and Single Wheel Hoe

Price, \$13.00.

No. 31 will delight the suburbanite or the growing boy who knows that a certain amount of garden work is to be part of his service.

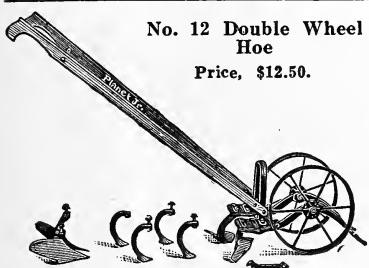
No. 3 Seeder

Price, \$18.50.



No. 3 is a favorite among onion growers, market gardeners and seedsmen.

Sows in drills or in hills, 4, 6, 8, 12 or 24 inches apart.

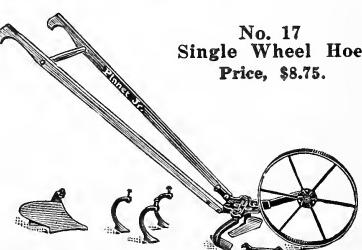


No. 12 Double Wheel Hoe

Price, \$12.50.

The attachments sold with No. 12 are what gardeners use most, and the others can be added as wanted.

The No. 17 has a pair of 6-inch hoes, a plow and a set of cultivator teeth, an outfit sufficient for most garden work.



No. 17 Single Wheel Hoe

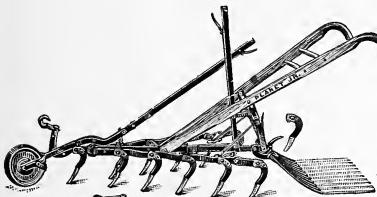
Price, \$8.75.

SEEDER ATTACHMENT.
No. 35 Seeder Attachment for the No. 12, No. 17, No. 19, etc. Holds one pint. Just what the home gardener needs. Price, \$6.25.

No. 90 Twelve-Tooth Harrow and Cultivator

Price, \$20.00.

The chisel-shaped teeth on No. 90 go as deep or shallow as you like, close to row, without injuring plants, cut out all weeds, stir the soil and mellow and fine it as with a garden rake.



No. 19 is strong, well made, and quickly adjusted. The height of the handles can be changed to suit man or woman, boy or girl.



No. 19 Garden Plow and Cultivator.

Price, \$6.25.

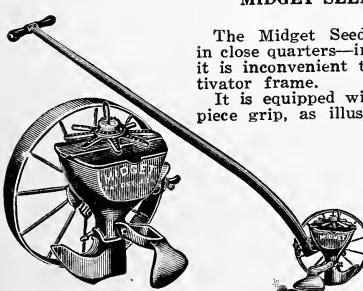
True Temper Tools

MIDGET SEEDER, WITH HANDLE—No. 1-H

Price, Each \$5.40

The Midget Seeder with Handle is intended for use in close quarters—in beds or against a fence, or wherever it is inconvenient to operate it when attached to a cultivator frame.

It is equipped with a 4 1/8 foot handle, with a cross-piece grip, as illustrated.

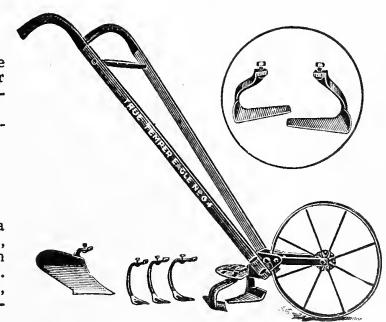


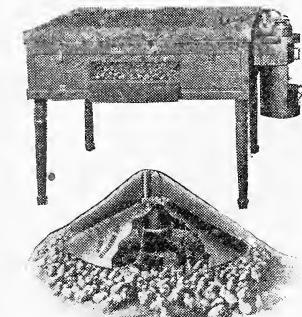
TRUE TEMPER CULTIVATOR

No. G-4.

Price, Each \$9.70.

A Single-Wheel Cultivator with a strong one-piece forged steel body, having a 16-in. steel wheel, with 1 1/4 in. tires, including two 6 in. Scuffle hoes, three Cultivator teeth, a large moldboard plow with landside, and a steel wrench.





BUCKEYE GUARANTEE.

This Buckeye Incubator is guaranteed to hatch every hatching egg, and we further guarantee the perfect working of all its mechanical parts. Should the Incubator fail to fulfill our guarantee in any particular, it may be returned to us at our expense (via freight) any time within 40 days after its receipt, and we will send the purchaser a new incubator in exchange.

For a long period of years the successful rearing of chickens has been the most serious problem that has confronted the poultry raisers throughout the world, and it was not unusual for experienced producers to lose fifty per cent or more of the chicks they hatched. This situation was caused in large part through the use of brooding devices that were designed with closed chambers, which made temperature regulation of the brooding chamber almost impossible, and at the same time obliged the chicks in many instances to step from a heated temperature of ninety-five to one hundred degrees into a room temperature which was frequently down to fifty degrees or less. As a result of these unsatisfactory conditions, the chicks were frequently overheated or chilled to such an extent that serious bowel troubles would result, and a large percentage of deaths or weaklings would follow.

Let Certainty Replace Gamble

Poultry raising may be uniformly successful. Given proper equipment and attention, any person may earn big profits at the end of the season. The profits depend upon two factors—the proportion of eggs hatched into healthy, vigorous chicks, and the number of these chicks raised to maturity.

WHERE PROFITS GO

Every hatching egg that fails to develop into a good chick, and every chick that dies is a direct cut into the profits. That is why you cannot afford to take chances on inferior or unproven equipment, and it is also why experienced poultrymen in all parts of the world use "Buckeye" Poultry Raising Equipment.

This experience has proven to them that Buckeye Incubators hatch every hatching egg, and Buckeye Brooders raise every raisable chick. There is no gamble, no large loss to eat up the profits. Ask the Buckeye user—he knows.

A MILLION DEPEND UPON IT.

That million poultry raisers who depend upon Buckeye Equipment do so because they have learned its reliability, its economy and its convenience. And Buckeye Incubators succeed because they combine the results of over thirty years' research and experience into the perfect incubator, automatic in regulation, simple in operation, free from frills, yet possessing every essential feature. The test of time endorses the teaching of experience and both point to the Buckeye as the World's Best Incubator, from the little 65 egg size up to the largest mammoth, holding 10,368 eggs.

ASSURANCE OF SUCCESS

Buckeye Brooders are sold under a positive money-back guarantee of satisfaction because they, too, have proved themselves. They make three chicks grow to quick maturity where one grew before; they reduce the expense to half, and the labor to a fourth, and they have the unqualified endorsement of authorities everywhere. With such equipment the gamble comes out of the chick-raising. You have the assurance of success. The proof of these statements is contained in an illustrated descriptive catalog, that is yours for the asking. Or better still—come and let us show you some Buckeye Incubators and Brooders.

A REVOLUTION IN CHICK RAISING

For a long period of years the successful rearing of chickens has been the most serious problem that has confronted the poultry raisers throughout the world, and it was not unusual for experienced producers to lose fifty per cent or more of the chicks they hatched. This situation was caused in large part through the use of brooding devices that were designed with closed chambers, which made temperature regulation of the brooding chamber almost im-

"BUCKEYE" Hot Water Incubators

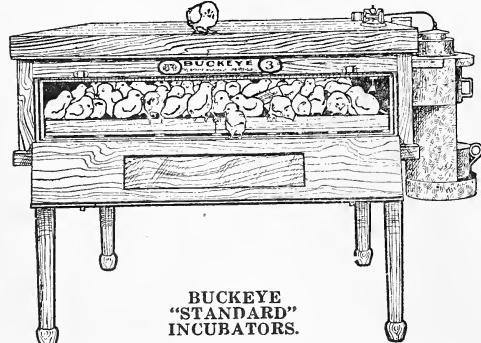
FREE DELIVERY.

We will Deliver Free any Buckeye Incubator or Brooder, or we will ship, Charges PREPAID to any point within 50 miles of Cleveland.

HATCH MORE AND STRONGER CHICKS.

The Buckeye will hatch more chicks and stronger chicks than any other make of incubator. It requires no artificial moisture; will operate satisfactorily in any climate, and requires no attention to the regulator from the time a hatch is started until it is finished.

Buckeye "Standard" Incubators are equipped with every desirable device that could possibly add to the efficiency of an incubator. Only the best of materials are used, and each machine is inspected by the National Board of Insurance Underwriters before it leaves the factory.



BUCKEYE
"STANDARD"
INCUBATORS.

NO PREVIOUS EXPERIENCE NECESSARY

It is not necessary to have any previous experience to operate a Buckeye. The entire Buckeye system is so simple that a boy or girl can operate it as satisfactorily as an experienced operator.

BUCKEYE "STYLE E" INCUBATORS (Shown Above.)

No. 16. Capacity 120 eggs.....Price \$27.50
No. 17. Capacity 210 eggs....." 36.75

This incubator is especially adapted for use by the small producer.

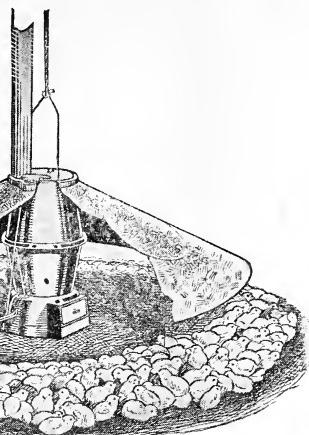
It has all the equipment of the larger machines, and will hatch just as many high quality chicks as the larger sizes. This incubator is identical with the Style E, excepting that it has short legs for table use.

No. 14. Capacity 65 eggs.....	Price \$16.50
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No. 1. Capacity 120 eggs,	Price, \$37.50
No. 2. Capacity 175 eggs,	" 44.50
No. 3. Capacity 250 eggs,	" 57.75
No. 4. Capacity 350 eggs,	" 68.00
No. 5. Capacity 600 eggs,	" 107.00

The Buckeye Colony Brooder | Buckeye Blue Flame Oil Colony Brooder

Broods 100 to 1000 Chicks



THE GREATEST COAL-BURNING BROODER EVER INVENTED. Self-Feeding, Self-Regulating, Everlasting. Heavy cast-iron stove that requires coaling but once every 24 hours in any temperature. Fifty-two-inch hover that will positively brood 1,000 newly hatched chicks.

The Buckeye Colony Brooder is the most practical brooding device ever invented. It will do anything and everything that any other brooder will do, and do it better. It is infinitely more satisfactory than brooders selling at twice the price. We are so positive that it cannot fail that we will permit you to try one for thirty days and Write Your Own Money-Back Guarantee. We furnish three sizes.

No. 18 Buckeye Standard Brooder—Capacity 500 chicks \$21.50

No. 19 Buckeye Standard Brooder—Capacity 1000 chicks 26.50

No. 25 Buckeye Standard Brooder—Capacity 1200 chicks 30.00

Ask for illustrated Buckeye catalog.

Here is a Colony Brooder heated by an extremely efficient "Blue-flame" burner that can be used to good advantage by breeders who are unable to secure hard coal.

These brooders are equipped with a wickless type of blue-flame burner that will furnish an abundance of heat at a very low cost of operation. There is nothing complicated about their operation, and since we know them to be the most highly efficient brooder of this type on the market, we have no hesitation about recommending them to our trade.

All these brooders, regardless of size, are equipped with a self-feeding oil container holding one gallon of oil, which never requires filling more than once in twenty-four hours.

The flame in the burner is controlled by a finely adjusted valve which requires very little attention.

The hovers are substantially built of galvanized steel and are supported by four cast-iron legs.



No. 9. Capacity, 75 chicks. Diameter, 24 inches. Shipping weight, 32 lbs. Price, \$9.75.

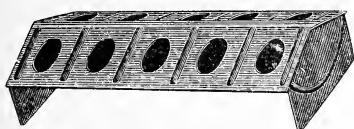
No. 10. Capacity, 200 chicks. Diameter, 34 inches. Shipping weight, 40 lbs. Price, \$17.50.

No. 11. Capacity, 350 chicks. Diameter, 42 inches. Shipping weight, 50 lbs. Price, \$20.00.

No. 12. Capacity, 500 chicks. Diameter, 52 inches. Shipping weight, 60 lbs. Price, \$22.50.

Poultry Supplies

We have space to list but few of the many items we carry in leading Poultry Supplies.

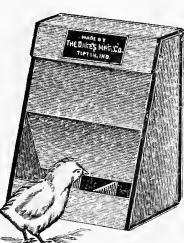


Chick Feed Troughs

These troughs are very convenient for feeding flocks of growing chicks. The trough is made on a half circle so that every bit of feed can be easily eaten out of it. 10 inch trough, 35c; 20 inch trough, 50c. Add 8c each for postage.

Chick Grit and Shell Box

Growing chicks should have grit, oyster shell and charcoal always before them; and for this purpose our Chick Grit and Shell Box is indispensable. Height 7½ inches, width 6 inches, depth (front to back) 4 inches at bottom, and 2 inches at top. 75c. Shipping weight, 2 lbs. Larger size, \$1.10.



O. K. Exerciser Feeder
This is one of our leaders for 1923: It is exceptionally good value for the price. The hopper holds 12 quarts. The O. K. Exerciser is perfectly weather proof and will compare favorably with any exerciser. Each, \$2.00. 3 lbs.



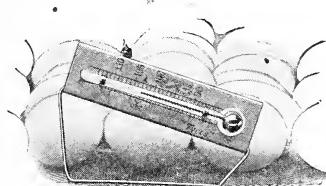
Round Pigeon and Chick Hopper

Made of galvanized steel and the galvanized wire grating is adjustable, up and down, to regulate the feed, which is automatic. A neat, practical, and durable hopper. Height, 13½ inches; diameter of hopper, 7½ inches; diameter of pan, 10½ inches. \$2.00. Shipping weight, 8 lbs.



Thermometers

The most important equipment to your incubator is an accurate, reliable thermometer. We carry two brands, the Tycos and the Wilder. These names stand for quality. Can be used on any make incubator.
Buckeye Thermometer, with wire holder \$1.00
Standing brass legs, adjustable 1.00
Reclining or hanging 1.00
Brooder thermometer, 10 inch..... 1.00
Postage on each, 5c additional.



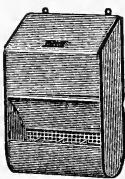
POULTRY SUPPLIES—Continued.

Standard Grit and Shell Box

This Grit and Shell Box has slanting front, inclined top and round bottom to trough. Just the thing to hold oyster shell, charcoal and grit for a small flock of fowls. Each, \$1.25. Weight, 2 lbs.

Dry Mash Hopper

The door hinged on the front is raised, as shown in the cut, for the fowls to eat; but when it is let down it closes the hopper up completely, making it rat, mouse and dust proof. The Economy hopper is 18½ inches high, and 6½ inches wide, and made in two lengths. No. 1 Economy Dry Mash Hopper, 12 inches long, one compartment. \$1.75. Shipping weight, 7 lbs. No. 2 Economy Dry Mash Hopper, 24 inches long, \$2.50. Shipping weight, 13 lbs.



Oakes Feeder

Can be used either for feed or water. We do not furnish jars. Price, each, 15c; 2 for 25c; by parcel post, each, 20c; 2 for 35c.

Oakes Feeder and Fountain

A galvanized pan made to hold any Mason fruit jar. Easily cleaned and keeps water always so it can be seen.

Can be used either for feed

or water. We do not furnish jars. Price, each, 15c; 2 for 25c; by parcel post, each, 20c; 2 for 35c.

**Colored Celluloid Leg Bands**

Best quality. Made of Celluloid in six sizes and ten colors: White, Black, Dark Blue, Light Blue, Red, Pink, Garnet, Green, Yellow, Purple.

(Sizes)	12 Bands	\$0.15
Asiatic	25 Bands	.30
American	50 Bands	.50
Mediterranean	100 Bands	.75
	500 Bands	3.60
	1000 Bands	7.00
Bantam	12 Bands	.10
Pigeon	25 Bands	.20
Baby Chick	50 Bands	.35
	100 Bands	.50
	500 Bands	2.25
	1000 Bands	4.00

Colored Leader—Adjustable

For a general purpose band that provides quick and accurate identification, this Colored Leader cannot be equalled. It will fit anything from Bantam to Cochin or Tom Turkey or Goose. Light in weight, but of sturdy design and construction. Continuous line of color around the band so that a bird can be distinguished, so far as brood or pen is concerned, from a distance.

A "Cracker Jack" for trap nesting. Prices, 12, 35c; 25, 60c; 100, \$1.50; 500, \$6.50; 1000, \$12.50.

Sanitary Wall Fountain

These fountains are very convenient to handle and more sanitary than the ordinary kind. A hood projects over the water trough and protects the water from getting soiled. The back is flattened for ease in hanging up. 1 qt. size, 60c, shipping weight, 1 lb.; 1 gal. size, \$1.25, shipping weight, 3 lbs.; 2 gal. size, \$1.60, shipping weight, 5 lbs.

**Drop Bottom Fountain**

In this style of Drinking Fountain, the pan which forms the trough from which the fowls drink is hinged at the back and fastened by a brass latch in front. The hood over the trough prevents falling dust and dirt from getting into the water; and when the bottom is turned back, the inside of the fountain can be easily cleaned out and kept in sanitary condition. 2 qt., 90c, shipping weight, 2 lbs.; 1 gal., \$1.15, shipping weight, 3 lbs.; 2 gal., \$1.35, shipping weight, 5 lbs.

Petty Poultry Punches

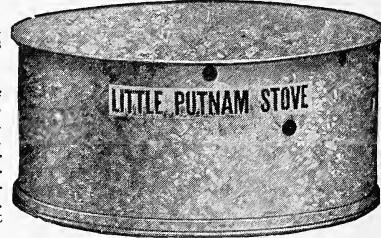
The Petty Poultry Punch for marking chicks by punching the web of the feet, is made of steel, nickel plated. It is substantially made, cuts a clean hole, and is convenient to use. Each, 25c, postpaid.

The Little Putnam Stove

Keep drinking water from freezing. Water kept at a proper temperature is a big help in getting winter eggs. This little stove makes it easy to supply your fowls with water at just the right temperature all through the winter. Set an ordinary fountain or water dish on this stove and it will keep the water from freezing. Absolutely safe, for if it becomes buried in the litter or is tipped over it will go out. Costs only 20c to 30c for oil to run an entire winter—others cost 75 to \$1.50 per season.

Also ideal for making an Oat Sprouter. One of these stoves and one or two rubber or shoe boxes will make a good Oat Sprouter. Full directions sent with stove.

The Little Putnam Stove is nine inches in diameter and four inches high; made of galvanized iron and equipped with a burner which embodies an entirely new principle in oil combustion. Combustion is complete and perfect, doubling the heat value of the oil. Price, each, \$2.00. Parcels Post weight 3 lbs.

**Aluminum Leg Bands**

MOE'S

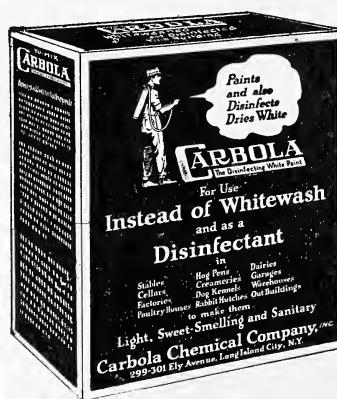
LEG BAND

2 3 4 1

No. 130. Aluminum, with extra large raised numbers. Easy to read, adjustable for any size fowl. Quickly applied. Package of 12 25 50 100 500 1000
Price \$0.15 \$0.25 \$0.45 \$0.75 \$3.50 \$6.00

Star Fountain and Feeder

Made of a single piece of heavy metal. No solder, no seams, no loose parts. Suitable for feed as well as water. Little chicks can not drown. Fits any Mason jar in 1 pint, 1 quart, and 2 quart sizes. No. 32 (glass jar not included), each, 15c; 6 for 80c; \$1.50 per doz.

**Carbola**

A disinfecting germ-killing white paint.

There is nothing that contributes more to success in poultry raising than absolute cleanliness and sanitation in the poultry house. Clean living quarters mean as much as proper feeding. Trial pkg., 30c; 10 lb. pkg., \$1.25; 50 lb. bag, \$5.25.

Johnson's Fruit Trees and Small Fruits

SMALL FRUITS AND FRUIT TREES. Owing to the fact that it is best to transplant hardy fruits as soon as possible after they have been taken from the soil, we have found that it is much more satisfactory all around for our customers to leave their orders, and we will have them packed separately at the nursery. They will be delivered to the purchaser in much better condition than if we tried to carry a complete stock at our store.

At the prices we quote we do not guarantee nursery stock, and will make no replacements. We deliver stock in good condition, and therefore cannot be responsible for improper planting nor adverse growing conditions.

FRUIT TREES

Apples

Standard Trees, 5 to 7 ft., each, \$1.50; Doz., \$15.00.

The following list of Apples embraces varieties which have been tested, and can be recommended as the very best for general cultivation.

The varieties are arranged in the relative order of their ripening.

SUMMER APPLES

YELLOW TRANSPARENT. Free growth; roundish, oblate, slightly conical; pale yellow; tender, juicy, sprightly sub-acid. Ripening late July.

RED ASTRACHAN. Free growth; large, roundish; deep crimson; juicy, rather acid; very hardy. Ripening late July.

WILLIAMS' FAVORITE. Moderate growth; large, oblong, red; rich and excellent. Ripening late August.

AUTUMN APPLES

WEALTHY. Free growth; medium; dark red; juicy, vinous, sub-acid; good; very hardy. Ripening September.

FALL PIPPIN. Free growth; very large; yellow, tender, rich. Ripening September to December.

FAMEUSE, or SNOW. Vigorous growth; medium; deep crimson; tender, sub-acid, delicious. One of the best.

WAGENER. Vigorous growth; medium to large; yellow and crimson; juicy and sub-acid. Early October.

JONATHAN. Medium growth; red and yellow; tender, juicy and rich; very productive. Early October.

WINTER APPLES

NORTHERN SPY. Fruit is large, flesh is very juicy and crisp. November.

DELICIOUS. The color is brilliant dark red, shading to yellow at the blossom end. The flesh is crisp, fine-grained and quite juicy; flavor slightly acid, but very pleasing. November.

BALDWIN. Vigorous growth; large; bright red; crisp, juicy; sub-acid; good; the most popular and profitable market sort. Ripening November to March.

Peaches

5 to 6 ft., each, \$1.25; Doz., \$12.00.

CHAMPION. Handsome creamy white with red cheek. It is of large size and of very superior flavor.

CRAWFORD'S EARLY. Very large; yellow; juicy, melting; freestone. Ripening end of August.

CRAWFORD'S LATE. Very large; yellow; juicy, good; freestone. Ripening end of September.

Pears

Standard Varieties, 5 to 7 ft., each \$1.75; Doz. \$17.00

Plums

Trees, 5 to 7 ft. Each \$1.75; Doz., \$16.00.

BRADSHAW. A very large, oval; bark violet red; juicy, sweet and good; a valuable market variety.

COE'S GOLDEN DROP. Very large; light yellow; rather firm; rich, sweet and good; adheres to the stone.

LOMBARD. Medium, oval; violet red, juicy, pleasant and good; very productive.

Cherries

Standard Varieties, 2 to 3 years, Each \$1.75; Doz. \$17.50.

Plant fruit trees one inch deeper than they stood in the nursery row.

Press the earth firmly about the roots.

Trim broken or bruised branches, also two-thirds of the previous season's growth.

SMALL FRUITS

Blackberries

Dozen, \$1.00; 100, \$8.00.

ELDORADO. Extra fine and very hardy; large sweet berry.

SNYDER. Medium size; very fine.

Currants

Each 35c; dozen, \$3.50; 100, \$20.00. Except where noted.

BLACK NAPLES. Large black for preserves.

CHERRY. Large, red, popular sort.

FAY'S PROLIFIC. Largest and finest red.

PERFECTION. (New.) Color red; larger than Fay and Cherry. Each, 45c; Doz., \$4.00; 100, \$24.00.

Raspberries

Dozen, \$1.25; 100, \$8.00.

CUTHBERT. Medium to large, red, sweet.

MARLBORO. Popular red sort. Early and hardy.

GOLDEN QUEEN. Large, yellow and firm; fine quality.

gregg. Large, black cap; great bearer.

ST. REGIS. An everbearing red variety. Doz., \$1.50.

Grapes—Hardy Varieties

Each, 60c; Doz., \$6.00. Except where noted.

BLACK

CONCORD. Large, always reliable. Medium.

MOORE'S EARLY. Large, fine quality. Early.

WORDEN. Large, excellent quality. Early.

RED

BRIGHTON. Large, best quality. Early.

Each, 75c

DELAWARE. Small, delicious. Late.

WHITE

MOORE'S DIAMOND. Large, excellent. Early.

NIAGARA. Large and productive. Medium.

Strawberry Plants

Standard Varieties: Doz., 75c; per 100, \$2.50.

The Strawberry may be successfully grown in any soil adapted to the growth of ordinary garden crops. The ground should be well prepared by plowing at least 18 inches deep, and properly enriched. Where the winters are severe, a slight covering of straw will be of great service.

BRANDYWINE. (Midseason) Famous among commercial growers for its quality as a shipper. Color blood red; round; yields very large crops of finest quality berries.

GLEN MARY. An excellent berry for quality, large size and productiveness, and one that meets all requirements for home and market use. Usually the last berries picked are as large as the first. The color, which is a deep, glossy crimson, is very attractive.

SAMPLE. A variety much used for market. A heavy yielder of large berries of excellent flavor. An imperfect flowering variety; should be planted with any of the mid-season varieties we offer.

SENATOR DUNLAP. (Midseason) Is one of the universally popular varieties; famous as a shipper. Color dark red; fruit large, rich flavor.

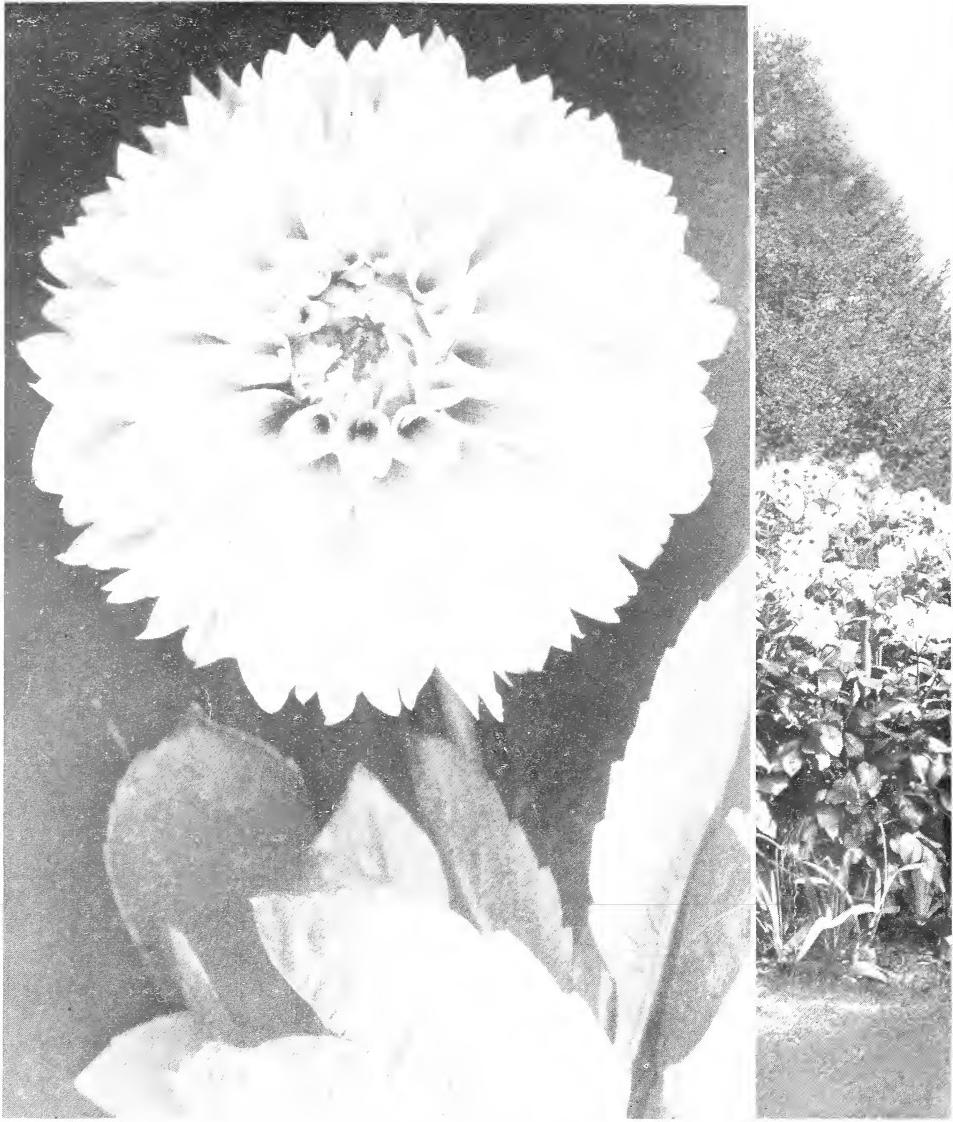
Everbearing Varieties: Doz. 75c; per 100, \$3.00.

PROGRESSIVE. This variety is one of the most perpetual, producing good picking for approximately four months, when weather is favorable. Berries of medium size, dark red inside and out.

SUPERB. The fruit is very large, glossy dark red color, particularly firm and of choicest quality. The Superb is the largest Fall Strawberry.

The Strawberry plants offered on this page are Layer Plants, and are for Spring Delivery. Pot-grown Plants will be Ready in August.

A. B. MORSE COMPANY, ST. JOSEPH, MICHIGAN



Dahlias Are Among the Most Beautiful of Flowers. This Is an Illustration of the Decorative Type.

JOHNSON'S SEED STORE

2158-60 East Ninth Street CLEVELAND, OHIO



An Effect Obtained With Cannas, Using Geraniums or Other Low Growing Plants as a Border.